

File 348:EUROPEAN PATENTS 1978-2004/Nov W01  
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File 349:PCT FULLTEXT 1979-2002/UB=20041111,UT=20041104  
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Set	Items	Description
S1	141048	PRINTER? ? OR PRINTING
S2	185710	REGIST? OR REGISTRY? OR ENROLL?
S3	156011	AUTHENTICAT? OR VALIDAT? OR CERTIFY? OR CERTIFIE?? ? OR CE- RTIFICATION? OR VERIFY? OR VERIFI? ? OR VERIFICATION?
S4	105287	SUBSTANTIAT? OR AUTHORIS? OR AUTHORIZ? OR APPROV??? ?
S5	259267	ID OR IDS OR IDENTIFIER? OR SERIAL(1W)NUMBER? ? OR PASSWOR- D? OR PASSCODE? OR CODEWORD?
S6	31354	(IDENTIFICAT? OR IDENTIFY? OR PASS) () (WORD? ? OR NUMBER? ? OR VALUE? ? OR CODE? ?)
S7	180127	PUBLICKEY? OR KEY? ? OR CIPHER? ? OR CYpher? ? OR KEypAIR? OR SUBKEY? ? OR TOKEN? ? OR PRIVATEKEY? OR PUBLICKEY?
S8	493017	SECRET OR ENCIPHER? OR ENCYIPHER? OR ENCOD??? ? OR ENCRYPT? OR SECURE? ? OR SECURING OR SECURITY OR PRIVATE OR CYBERSECUR?
S9	562606	SAFEGUARD? OR PROTECT? OR SAFETY OR SAFE
S10	90231	SERVER? ? OR HOSTSERVER? OR MAINFRAME? OR MAIN()FRAME? OR - RAS OR PRINTSERVER? OR MULTISERVER?
S11	27849	S8(1W) (CODE OR CODED OR CODES OR CODING? ? OR VALUE OR VAL- UES OR SEQUENCE? ? OR INTEGER? ? OR SUBSEQUENC? OR STRING? ? - OR SUBSTRING?)
S12	4692	S2:S4(5N)S1
S13	308	S12(25N)S10
S14	134	S13(25N) (S5:S7 OR SECRETKEY? OR S11)
S15	2410	IC='H04L-009/32'
S16	265	IC='B41J-029/38':IC='B41J-029/387'
S17	4	S14 AND S15:S16
S18	15	S14/TI,AB,CM
S19	6832	IC='H04L-009'
S20	2455	IC='H04L-012/24'
S21	1402	IC='G06F-003/12'
S22	8	S14 AND S19
S23	2	S14 AND S20
S24	26	S14 AND S21
S25	36	S17:S18 OR S22:S24
S26	36	IDPAT (sorted in duplicate/non-duplicate order)
S27	36	IDPAT (primary/non-duplicate records only)

27/5,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01792833

Document sharing service for network printing  
Dienst um Dokumente fur Netzwerdrucker zu teilen  
Service de partage de document pour imprimante de reseau  
PATENT ASSIGNEE:

SEIKO EPSON CORPORATION, (730004), 4-1, Nishi-shinjuku 2-chome,  
Shinjuku-ku, Tokyo 163-0811, (JP), (Applicant designated States: all)

INVENTOR:

Uchino, Atsushi c/o Seiko Epson Corp., 3-5, Owa 3-chome, Suwa-shi,  
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LEGAL REPRESENTATIVE:

Winter, Brandl, Furniss, Hubner, Ross, Kaiser, Polte Partnerschaft  
(100051), Patent- und Rechtsanwaltskanzlei Alois-Steinecker-Strasse 22,  
85354 Freising, (DE)

PATENT (CC, No, Kind, Date): EP 1465052 A2 041006 (Basic)  
EP 1465052 A2 041006  
APPLICATION (CC, No, Date): EP 2004007836 040331;  
PRIORITY (CC, No, Date): US 404385 030401  
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
HU; IE; IT; LI; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK  
INTERNATIONAL PATENT CLASS: G06F-003/12

ABSTRACT EP 1465052 A2

An internet accessible server permits access management to remote printing devices by remote users. Only users having printing access to a target remote printing device may submit a print job for printing on the target remote printing device. Users having printing access permission are further divided into owner status and user status. Owner status user of a remote printing device may grant or revoke the printing permission of non-owner status users. At least one owner status user is designated a super-owner, and can grant and revoke the owner status of other users. The super-owner user may relinquish its super-owner status to any other user. After submitting a print job for a target printing device, the print job is stored in a storage space on the Internet and is transferred to the target printing device only when the target printing device itself downloads the print job using standard internet protocols similar to those used in the downloading of a web page.

ABSTRACT WORD COUNT: 161

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):  
Application: 041006 A2 Published application without search report  
Application: 041006 A2 Published application without search report  
Change: 041013 A2 Inventor information changed: 20040824  
LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200441	1790
SPEC A	(English)	200441	10995
Total word count - document A			12785
Total word count - document B			0
Total word count - documents A + B			12785

INTERNATIONAL PATENT CLASS: G06F-003/12

...SPECIFICATION submitted the printer. The registered user that submits a remote printing device may alter the **password** of the submitted, **registered printing** device at any time.

In operation, a print job file is first uploaded through the Internet 17 to network **server** 15. The uploaded print job file is then sent via the Internet 17 to one...

...as a registered user within User Record 19, and fourth remote computing device 12 is **registered** as a **registered printing** device within **Printer** Record 21.

In a simplified scenario, first computing device 11 accesses network **server** 15 and submits its user name, and preferably also submits a user **password**. In the presently preferred embodiment, Access- ID Record 23 maintains a user **password** correlated to a corresponding registered user in User Record 19. After verifying that the submitted...

...remote printing device is responsible for maintaining its own

said network servers associates said new print...

- ...with an individually selected remote printing device within said targeted printer-group, then said network **server** associates the uploaded print-job file with only the individually selected remote printing device.
24. The internet printing system of claim 22 wherein each **registered** remote printing device may be associated with more than one of said printer-groups.
25. The internet...

...a user-record of registered users, and  
said ID codes are passwords for identifying each **registered** user.

26. The internet printing system of claim 25 wherein:  
each **registered** user has **printing** permission access to each  
**registered** printing device associated with the **registered** user's  
ID code;  
said network **server** maintains one of an owner status and a user status  
association between each **registered** user and the **registered**  
printing devices to which each **registered** user has **printing**  
permission access;  
**registered** users having owner status to a specific printing device may  
grant, or remove, printing permission...

**27/5,K/3 (Item 3 from file: 348)**

DIALOG(R)File 348:EUROPEAN PATENTS  
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01792832

**Address book service for network printer**

**Addresbuchdienst fur Netzwerkdrucker**

**Service de carnet d'adresses pour imprimante de reseau**

**PATENT ASSIGNEE:**

SEIKO EPSON CORPORATION, (730004), 4-1, Nishi-shinjuku 2-chome,  
Shinjuku-ku, Tokyo 163-0811, (JP), (Applicant designated States: all)

**INVENTOR:**

Uchino, Atsushi c/o Seiko Epson Corporation, 3-5, Owa 3-chome, Suwa-shi,  
Nagano-ken, 392-8502, (JP)

**LEGAL REPRESENTATIVE:**

Winter, Brandl, Furniss, Hubner, Ross, Kaiser, Polte Partnerschaft  
(100051), Patent- und Rechtsanwaltskanzlei Alois-Steinecker-Strasse 22,  
85354 Freising, (DE)

**PATENT (CC, No, Kind, Date):** EP 1465051 A2 041006 (Basic)  
EP 1465051 A2 041006

**APPLICATION (CC, No, Date):** EP 2004007835 040331;

**PRIORITY (CC, No, Date):** US 404358 030401

**DESIGNATED STATES:** AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
HU; IE; IT; LI; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR

**EXTENDED DESIGNATED STATES:** AL; LT; LV; MK

**INTERNATIONAL PATENT CLASS:** G06F-003/12

**ABSTRACT EP 1465051 A2**

An internet accessible server permits access management to remote printing devices by remote users. Only users having printing access to a target remote printing device may submit a print job for printing on the target remote printing device. Users having printing access permission are further divided into owner status and user status. Owner status user of a remote printing device may grant or revoke the printing permission of non-owner status users. At least one owner status user is designated a

super-owner, and can grant and revoke the owner status of other users. The super-owner user may relinquish its super-owner status to any other user. After submitting a print job for a target printing device, the print job is stored in a storage space on the Internet and is transferred to the target printing device only when the target printing device itself downloads the print job using standard internet protocols similar to those used in the downloading of a web page.

ABSTRACT WORD COUNT: 161

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 041006 A2 Published application without search report

Application: 041006 A2 Published application without search report

Change: 041013 A2 Inventor information changed: 20040824

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200441	3433
SPEC A	(English)	200441	11008
Total word count - document A			14441
Total word count - document B			0
Total word count - documents A + B			14441

INTERNATIONAL PATENT CLASS: G06F-003/12

...SPECIFICATION printer's owner, etc.

Before a printing device can be made available through the networks **server**, the **printing** device should first be **registered** with the site. Each **registered** **printing** device may be assigned an access **ID**, or **password**, such that the printing device, and its associated information in the database, is available only...submitted the printer. The registered user that submits a remote printing device may alter the **password** of the submitted, **registered** **printing** device at any time.

In operation, a print job file is first uploaded through the Internet 17 to network **server** 15. The uploaded print job file is then sent via the Internet 17 to one...

...as a registered user within User Record 19, and fourth remote computing device 12 is **registered** as a **registered** **printing** device within **Printer** Record 21.

In a simplified scenario, first computing device 11 accesses network **server** 15 and submits its user name, and preferably also submits a user **password**. In the presently preferred embodiment, Access- **ID** Record 23 maintains a user **password** correlated to a corresponding registered user in User Record 19. After verifying that the submitted...

...remote printing device is responsible for maintaining its own categorization set to "active" in network **server** 15. In other words, a **registered** **printing** device may be required to periodically submit an update to network **server** 15 for a specific data entry in the printing device's corresponding PD(underscore)data entry. For example, each **registered** **printing** device may be required to periodically contact network **server** 15 and identify itself as active by submitting its associated access **ID**. By requiring the printer's associated access **ID**, it can be assured the status of a remote printing device is not updated by...

...select any or all of the printing devices on the printer list provided by network **server** 15 as target recipients of the submitted print job

- of each **registered printing** device being alterable by the **printing** device's associated, owner status, **registered** user.
35. The internet **printing** system of claim 22, wherein said network **server** further maintains a user-record of registered users and a group-record of access groups, wherein each **registered printing** device may be associated with at least one of said access groups, and wherein each...

...said access groups;

wherein each registered user associated with a specific access group is granted **printing** permission access to all **registered printing** devices also associated said specific access group.

36. The internet printing system of claim 35, wherein said network **server** maintains a record of identification **passwords** identifying each registered user; and

wherein said access identification information is a **password** for identifying a target user within said user-record and said selection list includes **registered printing** devices associated with all access groups to which said target user is also associated.

37. The internet printing system of claim 35, wherein said network **server** maintains a record of identification **passwords** each respectively identifying a different one of said access groups;

wherein said access identification information is a **password** for identifying a target access group within said group-record and said selection list includes...

1 27/5,K/6 (Item 6 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01578482

**Printing system**

**Druckersystem**

**Système d'impression**

**PATENT ASSIGNEE:**

BROTHER KOGYO KABUSHIKI KAISHA, (431486), 15-1, Naeshiro-cho, Mizuho-ku,  
Nagoya-shi, Aichi-ken, (JP), (Applicant designated States: all)

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Fukazawa, Koshi, c/o Brother Kogyo Kabushiki K., 15-1, Naeshiro-cho,  
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**LEGAL REPRESENTATIVE:**

Prufer, Lutz H., Dipl.-Phys. et al (38291), Harthauser Strasse 25d, 81545  
Munchen, (DE)

**PATENT (CC, No, Kind, Date): EP 1310862 A2 030514 (Basic)**

**APPLICATION (CC, No, Date): EP 2002025118 021108;**

**PRIORITY (CC, No, Date): JP 2001344757 011109; JP 2001350286 011115; JP  
2001372848 011206**

**DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
IE; IT; LI; LU; MC; NL; PT; SE; SK; TR**

**EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI**

**INTERNATIONAL PATENT CLASS: G06F-003/12**

ABSTRACT EP 1310862 A2

An imaging system is provided with an authentication data storage that stores a plurality of pieces of authentication data in relationship to user IDs respectively representing owners of the plurality of communication devices. Further included is a reading system that reads out one of the plurality of pieces of the authentication data corresponding to a user ID if the user ID is transmitted from the external device in relationship to the image data, and a searching system searches for a communication device with which a connection authentication is established using the authentication data read out by the reading system within a predetermined communication area with respect to the imaging system. An imaging system forms an image represented by the image data transmitted in relationship to the user ID from the external device when the communication device is detected by the searching system.

ABSTRACT WORD COUNT: 143

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 030514 A2 Published application without search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200320	2900
SPEC A	(English)	200320	19931
Total word count - document A			22831
Total word count - document B			0
Total word count - documents A + B			22831

INTERNATIONAL PATENT CLASS: G06F-003/12

...SPECIFICATION unit 104, the CPU 101 executes the DATA REGISTRATION PROCEDURE shown in Fig. 9A to register the printing data with the data base 105a.

Fig. 9A is a flowchart illustrating the DATA REGISTRATION PROCEDURE executed by the CPU 101 of the server 101.

When the procedure is initiated, the IDs and printing data are extracted from the received packet (S560), to which a management ID is assigned (S570). In S580, the IDs and the printing data are stored in relationship...

...plurality of pieces of printing data in the data base 105a. Thus, when one management ID is designated in the data base 105a, one piece of printing data is identified.

When step S580 is done, the server 10 transmits a packet containing the recipient ID of the registered data to all the printers 10M in the network (S590) to notify registration of new data in the data base... it becomes unnecessary for the user to execute detailed setting on the workstation 40. By registering the recipient ID and the printing data with the server 100, when the user input the printing request through the wireless station 50 and sends...that the target printer 10M is determined based on the network address of the user ID receiving device, the printing data is printed by the printer close to the user.

In the above-described embodiment, as an example of registering the printing data with the database 105a of the server 100, a plurality of workstations 40 connected with the network 3 are described. The system...  
? t27/5,k/6-7,9-14

DIALOG(R) File 348:EUROPEAN PATENTS  
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01578482

**Printing system**

**Druckersystem**

**Système d'impression**

PATENT ASSIGNEE:

BROTHER KOGYO KABUSHIKI KAISHA, (431486), 15-1, Naeshiro-cho, Mizuho-ku,  
Nagoya-shi, Aichi-ken, (JP), (Applicant designated States: all)

INVENTOR:

Hibino, Masaaki, c/o Brother Kogyo Kabushiki K., 15-1, Naeshiro-cho,  
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Maekawa, Yohei, c/o Brother Kogyo Kabushiki K., 15-1, Naeshiro-cho,  
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Fukazawa, Koshi, c/o Brother Kogyo Kabushiki K., 15-1, Naeshiro-cho,  
Mizuho-ku, Nagoya-shi, Aichi-ken, (JP)

LEGAL REPRESENTATIVE:

Prufer, Lutz H., Dipl.-Phys. et al (38291), Harthauser Strasse 25d, 81545  
Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1310862 A2 030514 (Basic)

APPLICATION (CC, No, Date): EP 2002025118 021108;

PRIORITY (CC, No, Date): JP 2001344757 011109; JP 2001350286 011115; JP  
2001372848 011206

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
IE; IT; LI; LU; MC; NL; PT; SE; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-003/12

ABSTRACT EP 1310862 A2

An imaging system is provided with an authentication data storage that stores a plurality of pieces of authentication data in relationship to user IDs respectively representing owners of the plurality of communication devices. Further included is a reading system that reads out one of the plurality of pieces of the authentication data corresponding to a user ID if the user ID is transmitted from the external device in relationship to the image data, and a searching system searches for a communication device with which a connection authentication is established using the authentication data read out by the reading system within a predetermined communication area with respect to the imaging system. An imaging system forms an image represented by the image data transmitted in relationship to the user ID from the external device when the communication device is detected by the searching system.

ABSTRACT WORD COUNT: 143

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 030514 A2 Published application without search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200320	2900
SPEC A	(English)	200320	19931
Total word count - document A			22831
Total word count - document B			0
Total word count - documents A + B			22831

INTERNATIONAL PATENT CLASS: G06F-003/12

...SPECIFICATION unit 104, the CPU 101 executes the DATA REGISTERATION PROCEDURE shown in Fig. 9A to register the printing data with the data base 105a.

Fig. 9A is a flowchart illustrating the DATA REGISTERATION PROCEDURE executed by the CPU 101 of the server 101.

When the procedure is initiated, the IDs and printing data are extracted from the received packet (S560), to which a management ID is assigned (S570). In S580, the IDs and the printing data are stored in relationship...

...plurality of pieces of printing data in the data base 105a. Thus, when one management ID is designated in the data base 105a, one piece of printing data is identified.

When step S580 is done, the server 10 transmits a packet containing the recipient ID of the registered data to all the printers 10M in the network (S590) to notify registration of new data in the data base... it becomes unnecessary for the user to execute detailed setting on the workstation 40. By registering the recipient ID and the printing data with the server 100, when the user input the printing request through the wireless station 50 and sends...that the target printer 10M is determined based on the network address of the user ID receiving device, the printing data is printed by the printer close to the user.

In the above-described embodiment, as an example of registering the printing data with the database 105a of the server 100, a plurality of workstations 40 connected with the network 3 are described. The system...

27/5,K/7 (Item 7 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01571791  
Remote network printing  
Fernnetzwerkdrucken  
Impression de reseau a distance  
PATENT ASSIGNEE:  
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94304, (US), (Applicant designated States: all)  
INVENTOR:  
Garcia, Eduardo, C/ Alba, 12 1-B, Sant Esteve Sesrovires, 08635 Barcelona  
, (ES)  
Asensio, Josep M., Sant Antoni Maria Claret 387, 6e 3a, 08027 Barcelona,  
(ES)  
Aranda, Juan, Monturiol, 25 2o 2a, 08018 Barcelona, (ES)  
Aymerich, Josep M., Anselm Clave 34, Sant Vicenc dels Horts, 08620  
Barcelona, (ES)  
LEGAL REPRESENTATIVE:  
Boyce, Conor et al (74271), F. R. Kelly & Co., 27 Clyde Road, Ballsbridge  
, Dublin 4, (IE)  
PATENT (CC, No, Kind, Date): EP 1306746 A1 030502 (Basic)  
APPLICATION (CC, No, Date): EP 2001650129 011025;  
DESIGNATED STATES: DE; ES; GB; IT  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
INTERNATIONAL PATENT CLASS: G06F-003/12

#### ABSTRACT EP 1306746 A1

A remote printing system comprises a job sending component arranged to transmit a print job comprising one or more print files and an indicator of one or more job receivers to a remote printing server. The remote printing server is arranged to receive print jobs from one or more job

sending components and to store the print jobs. The server is further arranged to receive notification of acceptance of at least a portion of a print job from one or more of the job receivers. A job receiving component is associated with a job receiver. The job receiving component is arranged to receive any of the portions of print jobs accepted by the associated job receiver and to transmit the accepted portions to a printer for printing.

ABSTRACT WORD COUNT: 128

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 030502 A1 Published application with search report

Examination: 040102 A1 Date of request for examination: 20031103

Change: 040324 A1 Designated contracting states changed 20040206

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200318	1359
SPEC A	(English)	200318	5872
Total word count - document A			7231
Total word count - document B			0
Total word count - documents A + B			7231

INTERNATIONAL PATENT CLASS: G06F-003/12

...SPECIFICATION on a computer 12 from which they wish to send print jobs. This also entails **registering** with the remote **printing server** where they are provided with a username and optionally a **password**. During registration, they can also provide one or more e-mail addresses as means for...

27/5,K/9 (Item 9 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01526042

Method of printing over a network

Verfahren um über ein Netzwerk zu Drucken

Methode pour imprimer sur un réseau

PATENT ASSIGNEE:

SEIKO EPSON CORPORATION, (730004), 4-1, Nishishinjuku 2-chome,  
Shinjuku-ku, Tokyo 163-0811, (JP), (Applicant designated States: all)

INVENTOR:

Shima, Toshihiro, Seiko Epson Corporation, 3-5, Owa 3-chome, Suwa-shi,  
Nagano-ken 392-8502, (JP)

LEGAL REPRESENTATIVE:

Winter, Brandl, Furniss, Hubner, Ross, Kaiser, Polte Partnerschaft  
(100051), Patent- und Rechtsanwaltskanzlei Alois-Steinecker-Strasse 22,  
85354 Freising, (DE)

PATENT (CC, No, Kind, Date): EP 1274002 A2 030108 (Basic)

APPLICATION (CC, No, Date): EP 2002014084 020701;

PRIORITY (CC, No, Date): JP 2001201169 010702; JP 2002139016 020514

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
IE; IT; LI; LU; MC; NL; PT; SE; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-003/12

ABSTRACT EP 1274002 A2

The invention proposes a scheme in which even in the case where a lot

of print sites each of which provides a printing service by secure network communication are constructed on a network the print sites can be managed easily, as well as a system as an implementation of such a scheme. A printing method is provided which uses a server computer for a relay between client computers and printers that are connected to each other via a network. The server computer establishes sessions in response to secure communication session establishment requests from a client computer and a printer, respectively. The server computer connects the two sessions, and the client computer sends a print job to the printer via the server computer and causes the printer to perform a printing operation.

ABSTRACT WORD COUNT: 132

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 030108 A2 Published application without search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200302	1187
SPEC A	(English)	200302	7736
Total word count - document A			8923
Total word count - document B			0
Total word count - documents A + B			8923

INTERNATIONAL PATENT CLASS: G06F-003/12

...SPECIFICATION embodiment, the printer 3 is so set as to send a registration request to the **server** computer 1 (specified in advance) according to an initialization program that is started upon application of power. The **registration** request contains a **printer** name and a **password**, for example.

In response to the **registration** request from the **printer** 3, the **server** computer 1 judges whether to **authenticate** the **printer** 3 (step 302). If the **printer** 3 was **authenticated** at step 302, the **server** computer 1 acquires printer information of prescribed items from the **printer** 3 (step 303).

The...

27/5,K/10 (Item 10 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01449636

Controlling printing on a network

Drucksteuerung auf einem Netzwerk

Commande d'impression dans un reseau

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 1241562 A1 020918 (Basic)

APPLICATION (CC, No, Date): EP 2001302520 010316;  
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
INTERNATIONAL PATENT CLASS: G06F-003/12  
ABSTRACT EP 1241562 A1

There is disclosed a method of enabling a computer network user to print a task on a printer 5 connected to the network via an associated printer server 2. In the method a database 9 of print credit tokens is maintained on the printer server or another server connected to the network. The printer server queries the credit token database and determines, in advance of printing the task, whether the credit token database holds sufficient tokens to enable the task to be printed and, if it does, it sends the task to the printer and decrements the print credit token number held in the credit token database 9. On a remote server, a database 8 of printer servers and associated printers is maintained and the credit **token** database connects to the printer **server** database automatically or at the instigation of a user on the network to **verify** the identity of the **printer server** 2. The identity is **verified** at the **printer server** database 8 and print credit **tokens** are downloaded to the credit **token** database 9 to update the database of print credit **tokens** after **verification** of the identity of the **printer server** 2.

ABSTRACT WORD COUNT: 195

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 020918 A1 Published application with search report

Examination: 030514 A1 Date of request for examination: 20030318

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200238	668
SPEC A	(English)	200238	2078
Total word count - document A			2746
Total word count - document B			0
Total word count - documents A + B			2746

INTERNATIONAL PATENT CLASS: G06F-003/12

...ABSTRACT server, a database 8 of printer servers and associated printers is maintained and the credit **token** database connects to the printer **server** database automatically or at the instigation of a user on the network to **verify** the identity of the **printer server** 2. The identity is **verified** at the **printer server** database 8 and print credit **tokens** are downloaded to the credit **token** database 9 to update the database of print credit **tokens** after **verification** of the identity of the **printer server** 2.

...SPECIFICATION and, if it does, sending the task to the printer and decrementing the print credit **token** number held in the credit token database; maintaining, on a remote server, a database of printer **servers** and associated printers; connecting the credit **token** database to the printer **server** database automatically or at the instigation of a user on the network; **verifying** the identity of the **printer server** at the printer **server** database; and downloading print credit **tokens** to the credit **token** database to update the database of print credit **tokens** after **verification** of the identity of the **printer server**.

The web **server**, when issuing a credit, allows the end user, using a proprietary client application, to release his own on-site **server**

update the database of print credit **tokens** after **verification** of the identity of the **printer server**.

2. A method according to claim 1, wherein the credit **token** database and the printer **server** database are a single database.

3. A method according to claim 1 or claim 2, wherein the credit **token** database is located on a server remote from the printer server.

4. A method according...

...connected to a printer server on the network, the method comprising decrementing the print credit **token** number held in the credit **token** database each time a task is printed on the printer; maintaining, on a remote server, a database of printer **servers** and associated printers; and connecting the credit **token** database to the printer **server** database automatically or at the instigation of a user on the network; verifying the identity of the **printer server** at the printer **server** database; and downloading print credit **tokens** to the credit **token** database to update the database of print credit **tokens** after **verification** of the identity of the **printer server**.

10. A method according to any of claims 1 to 9, wherein the printer **server** database queries the printer **server** for an identity string and compares this string against a database of authorised identities; and...

...credit card payment.

13. A method according to claim 10, wherein purchase of print credit **tokens** is achieved by authorising payment via account billing.

14. A method according to any of claims 1 to 13, where **verification** of the identity of the **printer server** is achieved by use of a hardware **key**, or dongle attached to the printer **server**.

15. A method according to any of claims 1 to 14, wherein the computer network...

...method in accordance with any of claims 1 to 16, further comprising providing a block **token** issuer; and authorising blocks of credits to the printer **server** database for enabling print credit **tokens** to be supplied to the credit **token** database.

27/5,K/11 (Item 11 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01444755  
Printing system, printer client and service server system  
Druckersystem, Druckerclient und Dienstserversystem  
Systeme d'impression, client d'imprimante et systeme serveur de service  
PATENT ASSIGNEE:  
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PATENT (CC, No, Kind, Date): EP 1233331 A2 020821 (Basic)

APPLICATION (CC, No, Date): EP 2002003587 020215;

PRIORITY (CC, No, Date): JP 200143131 010220

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-003/12

ABSTRACT EP 1233331 A2

The printing system includes a service server system, from which data is downloaded, and a printer client downloads the data and conducts image output based on the data. In the printing system, the service server system acquires information to specify the printer client from the printer client itself that requests access to the service server system. The service server system specifies abstract data, allowed to be transmitted to the printer client, in accordance with a copyright protection level and the printer client downloads the abstract data specified by the service server system to conduct image output.

ABSTRACT WORD COUNT: 97

NOTE:

Figure number on first page: 6

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 020821 A2 Published application without search report  
LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200234	1673
SPEC A	(English)	200234	13836
Total word count - document A			15509
Total word count - document B			0
Total word count - documents A + B			15509

INTERNATIONAL PATENT CLASS: G06F-003/12

...SPECIFICATION showing the copyright protection level stored in printer information storage section 42, the service side **server** 100 judges the copyright protection level of the printer client 200 based on the code (S51).

Being **authenticated**, the **printer** client 200 specifies abstract data to be downloaded and sends the result of the specifying to the service side **server** 100 (S52). Each abstract data is given peculiar **ID** code (hereinafter referred to as an abstract code) for each case, and when the abstract...

27/5,K/12 (Item 12 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01417782

Remote printing of secure and/or authenticated documents  
Ferndrucken von sicheren und/oder authentifizierten Dokumenten  
Impression a distance de documents securises et/ou authentifies  
PATENT ASSIGNEE:

Trustcopy Pte Ltd, (3350201), c/o Kent Ridge Digital Labs, 21 Heng Mui Keng Terrace, Singapore 119631, (SG), (Applicant designated States:

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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 1197828 A1 020417 (Basic)

APPLICATION (CC, No, Date): EP 2001306086 010716;

PRIORITY (CC, No, Date): SG 200005827 001011

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-001/00; G06F-017/60; H04L-029/06

ABSTRACT EP 1197828 A1

A method for the remote printing of a document by use of a network, the method including receiving at a server the document as sent from a sender; the server forwarding the document to a recipient; the document being authenticated prior to being forwarded to the recipient; and the server receiving instructions from the sender regards printing controls and the server implementing those controls on the recipient. A hardware device to support the printing controls is also disclosed.

ABSTRACT WORD COUNT: 79

NOTE:

Figure number on first page: 5

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 020417 A1 Published application with search report  
Examination: 021009 A1 Date of request for examination: 20020805  
Examination: 021127 A1 Date of dispatch of the first examination  
report: 20021011

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200216	2407
SPEC A	(English)	200216	15119
Total word count - document A			17526
Total word count - document B			0
Total word count - documents A + B			17526

... CLAIMS 18. A method as claimed in claim 8, characterised in that the printer and the **server** system perform secure handshaking to **authenticate** each other, the **printer** and the **server** using one or more selected from the group consisting of a public **key** pair or the symmetry **key** of the printer, the **server** sending the encrypted document hash, an optical watermark, and printing instructions, to the printer and...

...being trusted in the printing control process to minimise attack on the client software, the **server** communicating with the **printer** through the client software to **verify** the **printer** serial **number** and internet protocol address, check the status of the **printer**, locks a control panel of...

...with an on-chip program, and an interface; the hardware device being registered with the **server**.

27. A method as claimed in claim 26, characterised in that the machine includes the **printer**, the hardware device being integral with the

printer , the printer being registered with the server .  
28. A method as claimed in claim 26, characterised in that the secure memory has an accessible memory that can be accessed only when a password of a user is entered and verified, the access being only to a block of...

27/5,K/13 (Item 13 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01417440

User support

Benutzerunterstützung

Assistance a l'utilisateur

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 1198091 A2 020417 (Basic)  
EP 1198091 A3 040107

APPLICATION (CC, No, Date): EP 2001123148 010927;

PRIORITY (CC, No, Date): JP 2000293434 000927

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04L-012/24

ABSTRACT EP 1198091 A2

Online support is given for operation of a device. First, a client system equipped with the device is connected to a user support server that gives online support for operation of the device. Next, the client system transmits device information for which the device model can be specified and use environment information indicative of an operation environment of the device to the user support server system. Finally, using the information transmitted to the user support server system, the device support information for supporting operation of the device that the client system has is generated, and the device support information is transmitted to the client system.

ABSTRACT WORD COUNT: 106

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 020417 A2 Published application without search report

Search Report: 040107 A3 Separate publication of the search report

Examination: 040407 A2 Date of request for examination: 20040205

Examination: 040428 A2 Date of dispatch of the first examination  
report: 20040311

Assignee: 041013 A2 Transfer of rights to new applicant: SEIKO  
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LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text Language Update Word Count

CLAIMS A	(English)	200216	2803
SPEC A	(English)	200216	9755
Total word count - document A		12558	
Total word count - document B		0	
Total word count - documents A + B		12558	

INTERNATIONAL PATENT CLASS: H04L-012/24

...SPECIFICATION clicking this user support icon.

At step S106, computer 90 is connected to user support **server** system SV. This connection is made automatically using the **printer ID** **registered** in computer 90. When the connection is completed, the process advances to step S107 and the user registration process to user support **server** system SV is started.

Figure 4 is a flow chart that shows the procedure for the registration process to the user support **server** system SV. At step S201, the user's **printer ID** is **registered** to the user support **server** system SV. By **registering** the **printer ID**, it is possible to create a customer database with this as a reference, making customer...is installed.

When install is completed normally, that fact is transmitted to the user support **server**, and the user **ID** and **printer ID** of that user are **registered**. At that time, it is preferable that the printing environment information be automatically uploaded to the user support **server** system SV.

Provision of new technology can be limited to registered users by the above...

27/5,K/14 (Item 14 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01278199  
Print system, service system, data server, master server, print client system and printer  
Druckersystem, Dienstsystem, Datenserver, Hauptserver, Druckerkundensystem und Drucker  
Systeme d'impression, systeme de service, serveur de donnees, serveur maître, systeme de client d'impression et imprimante  
PATENT ASSIGNEE:

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Inai, Masayuki, c/o Konica Corporation, 2970 Ishikawa-cho, Hachioji-shi, Tokyo, (JP)  
Nakazawa, Toshihiko, c/o Konica Corporation, 2970 Ishikawa-cho, Hachioji-shi, Tokyo, (JP)  
Yamazaki, Hirohiko, c/o Konica Corporation, 2970 Ishikawa-cho, Hachioji-shi, Tokyo, (JP)

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PATENT (CC, No, Kind, Date): EP 1100003 A2 010516 (Basic)

EP 1100003 A3 040526

APPLICATION (CC, No, Date): EP 2000123539 001027;

PRIORITY (CC, No, Date): JP 99345201 991027; JP 2000124049 000425; JP 2000186167 000621

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
INTERNATIONAL PATENT CLASS: H04L-029/06; G06F-003/12

ABSTRACT EP 1100003 A2

A print system for use through a network comprises a service system connected to the network and having a storage section in which a plurality of data are stored in a plurality of data storing locations; and a printer client system connected to the network and having a printer, wherein the printer client system accesses the service system through the network so as to obtain a data storing location of request data, downloads the request data from the obtained data storing location of the storage section, and conducts printing on the basis of the request data by the printer; and wherein the printer client system notifies the printing result to the service system.

ABSTRACT WORD COUNT: 114

NOTE:

Figure number on first page: 3

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 010516 A2 Published application without search report

Change: 040526 A2 International Patent Classification changed:  
20040408

Search Report: 040526 A3 Separate publication of the search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200120	1413
SPEC A	(English)	200120	37291
Total word count - document A			38704
Total word count - document B			0
Total word count - documents A + B			38704

...INTERNATIONAL PATENT CLASS: G06F-003/12

...SPECIFICATION to data for printing are conducted.

The collating section 16 collates whether the request from **printer** client 40 is **authenticated** by master **server** 30 or not. In the case of the collation, job ID (described later) received from printer client 40 is transmitted to master **server** 30 to request the collation of whether the print job relating to the job ID is a print job granted by the master server 30 or not, and the results...

...13 is provided in printer client 40 as described later.

In Fig. 5, the master **server** 30 has therein main control section 301, **authentication** section 302, **printing** specifying section 303, quotation preparing section 304, job ID issuing section 305, collating section 306, the payment charging process section 307, address storage section...the data encrypted by its own public key, it decrypts them by its own secret **key**.

The communication section 311 executes, by means of the known protocol, communication between data server 10 and master **server** 30 and communication between the master **server** 30 and printer client 40, through internet INet.

It is also possible to employ the structure wherein **authentication** section 302, **printing** specifying section 303, quotation preparing section 304, job ID issuing section 305, collating section 306, the payment charging process section 307, and cryptograph processing... printer client 40 become feasible. The log-in request from a user

registered in master **server** 30 as a utilizer of a print system or from the printer client is judged to be correct. Results of **authentication** are notified to **printer** client 40.

After the **authentication**, the **printer** client 40 specifies text data to be printed, and transmits the result of the specification to master **server** 30 (S13). Each of text data is given peculiar ID code (hereinafter referred to as book code) for each case, and when the text data...conversion section 13, compression section 14 and cryptograph processing section 15 are provided, these plural **servers** constitute data **server** 10.

Though master **server** 30 in Fig. 5 has been explained by the example wherein main control section 301, **authentication** section 302, **printing** specifying section 303, quotation preparing section 304, job ID issuing section 305, collating section 306, the payment charging process section 307, address storage section...

...one server, it is also possible to disperse these sections to be processed by plural **servers**.

Further, there may also be present plural master **servers** 30 each being provided with main control section 301, **authentication** section 302, **printing** specifying section 303, quotation preparing section 304, job ID issuing section 305, collating section 306, the payment charging process section 307, address storage section...data for image formation are conducted.

The collating section 16 collates whether the request from **printer** client 40 is **authenticated** by master **server** 30 or not. In the case of the collation, job ID (described later) received from printer client 40 is transmitted to master **server** 30 to request the collation of whether the print job relating to the job ID is a print job granted by the master server 30 or not, and the results...book code in printer information storage section 402.

After receiving the order data, the master **server** 30 issues specific job ID in job ID issuance section 305 for each print job relating to order request from **printer** client 40 that has **approved** the estimation (S19). Then, the job ID issued by the job ID issuance section 305 is stored in storage section 309 together with ID, the user's name sent in the case of the order request, the book code...S36) for printer client 40 that is a target for accounting, based on the job ID, and the print job is terminated.

A user operates printer client 40 to transmit the request of log-out to master **server** 30 (S37), and the master **server** 30 conducts authentication (S38) after receiving the request of log-out, thus, results of the **authentication** are notified to the **printer** client 40 (S39). The communication channel secured between the master **server** 30 and the printer client

?

PLEASE ENTER A COMMAND OR BE LOGGED OFF IN 5 MINUTES  
? t27/5,k/16,19-20,22-29

27/5,K/16 (Item 16 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00939757

Printing system

Drucksystem

Système d'impression

PATENT ASSIGNEE:

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Tokyo, (JP), (Proprietor designated states: all)

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PATENT (CC, No, Kind, Date): EP 854415 A2 980722 (Basic)  
EP 854415 A3 000524  
EP 854415 B1 040519

APPLICATION (CC, No, Date): EP 97122908 971224;

PRIORITY (CC, No, Date): JP 96350179 961227; JP 96349634 961227; JP  
96350208 961227; JP 97268663 971001; JP 97277158 971009; JP 97305739  
971107

DESIGNATED STATES: DE; FR; GB; IT; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-003/12

CITED PATENTS (EP B): US 5327526 A; US 5566278 A

ABSTRACT EP 854415 A2

A client transmits only job information of print data to a server, the server manages a print order in accordance with the job information, and if printable, the client transmits the print data directly to a printer. After the print is completed, the printer notifies the server of a print completion, and upon reception of this print completion notice, the server instructs the client to delete the print data. In a print system on a network configured as above, the network traffic is not increased, a large memory capacity is not necessary for the server so that the server load is reduced, the job management of the server can be performed by the client, the completion of a print operation can be monitored, and a print operation is possible even if the server is in an error state.

ABSTRACT WORD COUNT: 139

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Search Report: 000524 A3 Separate publication of the search report

Application: 980722 A2 Published application (A1with Search Report  
;A2without Search Report)

Grant: 040519 B1 Granted patent

Examination: 001129 A2 Date of request for examination: 20001004

Examination: 040204 A2 Date of dispatch of the first examination  
report: 20030812

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199830	2101
CLAIMS B	(English)	200421	2171
CLAIMS B	(German)	200421	1627
CLAIMS B	(French)	200421	2463
SPEC A	(English)	199830	19594

SPEC B (English) 200421 19651  
Total word count - document A 21698  
Total word count - document B 25912  
Total word count - documents A + B 47610

INTERNATIONAL PATENT CLASS: G06F-003/12

...SPECIFICATION S3808 it is checked whether the printer handle as one parameter of a print job ID acquire function is correct, i.e., whether there is **printer** information corresponding to the **printer registered** in the virtual print **server**. If there is corresponding printer information, at Step S3809 an ID different from the job ID presently managed by the virtual print server is issued and returned back to the print...

...is one parameter of a job cancel function is correct, i.e., whether there is **printer** information corresponding to the **printer registered** in the virtual print **server**. If there is corresponding printer information, at Step S3907 the job ID area of the job information table linked to all the job information queues is searched...

...it is checked whether the printer handle which is one parameter of the print job ID acquire function has corresponding **printer** information **registered** in the virtual print **server**. If there is no corresponding printer information, at Step S3817 the print job ID acquire function is terminated as error to follow B in Fig. 39.

At Step S3812...

...SPECIFICATION S3808 it is checked whether the printer handle as one parameter of a print job ID acquire function is correct, i.e., whether there is **printer** information corresponding to the **printer registered** in the virtual print **server**. If there is corresponding printer information, at Step S3809 an ID different from the job ID presently managed by the virtual print server is issued and returned back to the print...

...is one parameter of a job cancel function is correct, i.e., whether there is **printer** information corresponding to the **printer registered** in the virtual print **server**. If there is corresponding printer information, at Step S3907 the job ID area of the job information table linked to all the job information queues is searched...

...it is checked whether the printer handle which is one parameter of the print job ID acquire function has corresponding **printer** information **registered** in the virtual print **server**. If there is no corresponding printer information, at Step S3817 the print job ID acquire function is terminated as error to follow B in Fig. 39.

At Step S3812...

27/5,K/19 (Item 19 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01150068 \*\*Image available\*\*  
SYSTEM FOR CERTIFYING WHETHER PRINTED MATERIAL CORRESPONDS TO ORIGINAL  
SISTÈME POUR CERTIFIER SI UN MATERIAU IMPRIMÉ CORRESPOND À L'ORIGINAL  
Patent Applicant/Assignee:  
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, JP (Residence), JP (Nationality), (For all designated states except:  
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Patent Applicant/Inventor:

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(Designated only for: US)

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200472845 A1 20040826 (WO 0472845)

Application: WO 2004JP1425 20040210 (PCT/WO JP04001425)

Priority Application: JP 200336488 20030214; JP 200367529 20030313; JP  
200390002 20030328

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS KE KG KP KR KZ LC LK  
LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU  
SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-003/12

International Patent Class: G06T-001/00; G09C-001/00; G09C-005/00;  
H04L-009/00 ; H04N-001/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 13261

English Abstract

A data processing method, which is provided in an image processing system in which a server and a data processor communicate with each other to perform a predetermined data process, includes a step of extracting a feature amount of electronic data to be output from a printer, a step of transmitting original specifying information including the extracted feature amount and a user ID for discriminating a print requester of the electronic data, to the server, a step of controlling generation of print data to be output to the printer, based on original certification information notified by the server, and a step of causing the printer to print the generated print data and information indicating that the print data corresponds to an original. By this method, a large storage capacity is not required to certify one data, and to keep a secret of the stored electronic data is easy.

#### French Abstract

L'invention porte sur un procede de traitement de donnees mis au point dans un systeme de traitement d'image dans lequel un serveur et un processeur de donnees communiquent entre eux afin d'effectuer un traitement de donnees predetermine. Ce procede consiste a extraire une quantite de caracteristiques de donnees electroniques devant etre fournies par une imprimante, transmettre au serveur les informations de specification originales comprenant la quantite de caracteristiques extraites et une identification utilisateur afin de differencier un demandeur d'impression ; controler la generation de donnees d'impression a envoyer a l'imprimante sur la base des informations de certification originales notifiees par le serveur, et commander a l'imprimante l'impression des donnees generees et des informations indiquant que les donnees d'impression correspondent a un original. Par ce procede, il n'est pas necessaire d'avoir une grande capacite de stockage pour certifier certaines donnees et il est facile de garder secretes les donnees electroniques stockees.

#### Legal Status (Type, Date, Text)

Publication 20040826 A1 With international search report.

Publication 20040826 A1 With amended claims:

Main International Patent Class: G06F-003/12  
...International Patent Class: H04L-009/00

#### English Abstract

...a step of transmitting original specifying information including the extracted feature amount and a user ID for discriminating a print requester of the electronic data, to the server , a step of controlling generation of print data to be output to the printer , based on original certification information notified by the server , and a step of causing the printer to print the generated print data and information...

27/5,K/20 (Item 20 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01127952 \*\*Image available\*\*

ROTATIONALLY SYMMETRIC TAGS

REPÈRES A SYMETRIE ROTATIONNELLE

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Patent Applicant/Inventor:

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Legal Representative:

SILVERBROOK Kia (agent), Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041, AU,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200451557 A1 20040617 (WO 0451557)

Application: WO 2002AU1634 20021203 (PCT/WO AU02001634)

Priority Application: WO 2002AU1634 20021203

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ

EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG  
SI SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06K-019/06

International Patent Class: G06K-009/18

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 28023

#### English Abstract

Machine-readable coded data disposed on or in a substrate in accordance with a layout, and method of generating such coded data, The layout has six-fold rotational symmetry and includes 6 identical sub-layouts rotated 1/6 revolutions apart about a center of rotational symmetry of the layout. The coded data is disposed in accordance with each sub-layout including rotation-indicating data that distinguishes the rotation of that sub-layout from the rotation of at least one other sub-layout within the layout. In one embodiment, the symbols of the sub-layouts are interleaved with each other

#### French Abstract

L'invention concerne des donnees codees pouvant etre lues par une machine disposees sur ou dans un substrat conformement a disposition, ainsi qu'un procede permettant de generer de telles donnees codees. La disposition presente une symetrie rotationnelle a six plis et elle comprend 6 sous-dispositions identiques decalees de 1/6 de revolutions autour d'un centre de la symetrie rotationnelle de la disposition. Les donnees codees sont disposees conformement a chaque sous-disposition, y compris des donnees d'indication de rotation distinguant la rotation de cette sous-disposition de la rotation d'au moins une autre sous-disposition dans la disposition. Dans un mode de realisation, les symboles des sous-dispositions sont entrelaces.

#### Legal Status (Type, Date, Text)

Publication 20040617 A1 With international search report.

Fulltext Availability:

Claims

#### Claim

... reference is made to the secure transmission of information between a netpage printer and a **server**, what actually happens is that the **printer** obtains the **server**'s certificate, **authenticates** it with reference to the certificate authority, uses the public **key**-exchange **key** in the certificate to exchange a secret session **key** with the **server**, and then uses the secret session **key** to encrypt the message data. A session **key**, by definition, can have an arbitrarily short lifetime.

#### 3.2 NETPAGE PRINTER SECURITY

Each netpage printer is assigned a pair of unique **identifiers** at time of manufacture which are stored in read-only memory in the **printer** and in the netpage **registration server** database. The first ID 62 is public and uniquely identifies the printer on the netpagenet- When the printer connects...

...the IDs match. It then creates and signs a certificate containing the printer's public ID and public signature key , and stores the certificate in the registration database. The netpage registration server acts as a certificate authority for netpage printers, since it has access to secret information allowing it to verify printer identity. When a user subscribes to a publication, a record is created in the netpage registration server database authorizing the publisher to print the publication to the user's default printer or...

...a particular user and is signed by the publisher using the publisher's private signature key . The page server verifies, via the registration database, that the publisher is authorized to deliver the publication to the specified user. The page server verifies the signature using the publisher's public key , obtained from the publisher's certificate stored in the registration database. The netpage registration server accepts requests to add printing authorizations to the database, so long as those requests are initiated via a pen registered to the printer .

### 3.3 NETPAGE PEN SECURITY

Each netpage pen is assigned a unique, identifier at time of manufacture which is stored in read-only memory in the pen and...

27/5,K/22 (Item 22 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00915707 \*\*Image available\*\*

METHOD AND SYSTEM FOR THE APPROVAL OF AN ELECTRONIC DOCUMENT OVER A NETWORK  
PROCEDE ET SYSTEME PERMETTANT D'APPROUVER UN DOCUMENT ELECTRONIQUE SUR UN  
RESEAU

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200248925 A2-A3 20020620 (WO 0248925)

Application: WO 2001CA1810 20011214 (PCT/WO CA0101810)

Priority Application: US 2000255134 20001214

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/60

Publication Language: English

Filing Language: English  
Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 8090

English Abstract

A method and system for a proponent to enable a correspondent to securely and electronically sign a document are disclosed. A proponent server is provided with a proponent application including secure approval tools for verifying or signing the document. A correspondent application is installed on a terminal of the correspondent. The correspondent application allows the correspondent to access the proponent application from his terminal, and use the approval tools for verifying or signing documents selected by the proponent. The document may then be securely transmitted back to the correspondent and securely printed at either end.

French Abstract

La presente invention concerne un procede et un systeme destines a l'auteur d'une proposition et permettant a un correspondant de signer un document de maniere sure et par voie electronique. Un serveur de l'auteur de la proposition comprend une application d'auteur de proposition qui presente des outils d'approbation securisee permettant de verifier ou de signer le document. Une application de correspondant est installee sur un terminal du correspondant. Cette application de correspondant permet au correspondant d'accéder a l'application d'auteur de proposition depuis son terminal et d'utiliser les outils d'approbation afin de verifier ou de signer des documents choisis par l'auteur de la proposition. Le document peut ensuite étre retransmis de maniere securisee au correspondant et étre imprime de maniere securisee a chaque extremite.

Legal Status (Type, Date, Text)

Publication 20020620 A2 Without international search report and to be republished upon receipt of that report.  
Examination 20020718 Request for preliminary examination prior to end of 19th month from priority date  
Search Rpt 20021003 Late publication of international search report  
Republication 20021003 A3 With international search report.

Fulltext Availability:  
Claims

Claim

... signature,

46 The system according to claim 45, wherein said signing means comprise a correspondent **identifier** provided on said proponent **server**, said correspondent **identifier** including the correspondent electronic signature.

47 The system according to claim 39, wherein said correspondent application comprises secure printing means for securely **printing** the electronic document as **approved**.

48 The system according to claim 39, wherein said transmitting means include a messaging application...

00907040      \*\*Image available\*\*  
PRINT DRIVER APPARATUS AND METHODS FOR FORWARDING A PRINT JOB OVER A  
NETWORK  
PILOTE D'IMPRESSION ET PROCEDES PERMETTANT D'ENVOYER UN TRAVAIL  
D'IMPRESSION SUR UN RESEAU

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755 Main Street, Monroe, CT 06468, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200241133 A2-A3 20020523 (WO 0241133)

Application: WO 2001US42759 20011016 (PCT/WO US0142759)

Priority Application: US 2000688458 20001016

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL  
TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-003/12

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 9469

English Abstract

The present invention relates to methods and apparatus for forwarding a print job over a communications network. In particular, the present invention enables a user to obtain print jobs at a location which may be unspecified, and which may be remote from the source (10) of the print job. A print driver is provided which is capable of forwarding one or more print jobs over a network. The print driver may be interfaced with any suitable print job source (10) (e.g., a client device capable of generating a printable document, such as a computer) to obtain a print job. The print job is forwarded from the print driver, over the network, to a spooling server (50). A printer polling device (100), which may be used at a location remote from the client device (10), is capable of polling a spooling server (50) via the network (110) to identify whether any print jobs associated with the printer polling device (100) are available for printing at a printer (120) currently associated with the printer polling device. The spooling server (50) need not initiate contact with the printer (120) through a firewall, since it is polled by the printer polling device. Thus, network security is maintained.

French Abstract

L'invention concerne des procedes et un appareil permettant d'envoyer un travail d'impression sur un reseau de communications. L'invention permet

notamment a un utilisateur d'obtenir des travaux d'impression au niveau d'un emplacement qui peut ne pas etre specifie, et qui peut etre distant de la source (10) dudit travail d'impression. Un pilote d'impression permet d'envoyer au moins un travail d'impression sur un reseau. Ledit pilote d'impression permet d'établir une interface avec une source (10) de travail d'impression appropriee (par exemple, un dispositif de client capable de produire un document imprimable, tel qu'un ordinateur) afin d'obtenir un travail d'impression. Ledit travail d'impression est transmis sur le reseau, a partir du pilote d'impression, a un serveur de desynchronisation (50) des entrees-sorties. Un dispositif d'interrogation (100) d'imprimante pouvant etre utilise au niveau de l'emplacement distant du dispositif client (10) est capable d'interroger un serveur de desynchronisation (50) des entrees-sorties via le reseau (110), de facon a identifier si des travaux d'impression quelconques associes au dispositif d'interrogation (100) d'imprimante ont disponibles pour etre imprimes au niveau d'une imprimante (120) couramment associee audit dispositif d'interrogation d'imprimante. Du fait qu'il est interroge par le dispositif d'interrogation d'imprimante, le serveur de desynchronisation (50) des entrees-sorties n'a pas besoin d'établir de contact avec l'imprimante (120) par l'intermediaire d'un pare-feu. En consequence, la securite du reseau est maintenue.

Legal Status (Type, Date, Text)

Publication 20020523 A2 Without international search report and to be republished upon receipt of that report.  
Examination 20030206 Request for preliminary examination prior to end of 19th month from priority date  
Search Rpt 20030320 Late publication of international search report  
Republication 20030320 A3 With international search report.

Main International Patent Class: G06F-003/12

Fulltext Availability:

Detailed Description

Detailed Description

... server 50 needs to verify that it is indeed talking to the actual user.

The **server** generates a random string of bits 350. These bits are sent to the **printer** polling device 100 where **authentication** is to take place. The user's PIN 150 is used to generate an encryption **key** 152 for encrypting the bits (indicated at 155) and the result is returned to the ...

27/5,K/24 (Item 24 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00899460 \*\*Image available\*\*

METHODS AND SYSTEMS FOR THE PROVISION OF PRINTING SERVICES  
PROCEDES ET SYSTEMES PERMETTANT D'ASSURER LA PRESTATION DE SERVICES  
D'IMPRESSION

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SCHOENZEIT Loren, 4480 Forest Lake Landing, Orono, MN 55364, US, US  
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STEINBERG John D, 873 Hacienda Way, Millbrae, CA 94030, US, US  
(Residence), US (Nationality), (Designated only for: US)  
TENENBAUM Ofer, 3509 La Terrace Circle, San Jose, CA 94123, US, US  
(Residence), IL (Nationality), (Designated only for: US)

Legal Representative:

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755 Main Street, Monroe, CT 06468, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200233532 A2-A3 20020425 (WO 0233532)  
Application: WO 2001US32376 20011016 (PCT/WO US0132376)  
Priority Application: US 2000688457 20001016

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL  
TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-003/12

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 13308

English Abstract

The present invention relates to methods and systems for providing printing services over a communications network. In particular, the present invention enables a user to obtain print jobs at an unspecified location which may be remote from the source of the print job. A spooling server (50) is used to store a print job received via the network from a print job source (10). A printer polling device (100), which may be at a location remote from the print job source, is capable of polling the spooling server (50) via the network (110) to identify whether any print jobs associated with the printer polling device (100) are available for printing at an associated printer (120). The spooling server (50) need not initiate contact with the printer (120) through a firewall, since it is polled by the printer polling device (100). Thus, network security is maintained. A fee can be charged for the printing services provided.

French Abstract

La presente invention traite de procedes et de systemes permettant d'assurer la prestation de services d'impression sur un reseau de communications. En particulier, la presente invention permet a un utilisateur d'obtenir des impressions dans un lieu non specifie pouvant etre eloigne de la source de l'impression. Un serveur de desynchronisation des entrees-sorties (50) permet de memoriser une impression recue d'une source (10) d'impression par l'intermediaire du reseau. Un dispositif d'interrogation d'imprimante (100), pouvant etre situe dans un lieu eloigne de la source d'impression, peut interroger le serveur de desynchronisation des entrees-sorties (50) par l'intermediaire du reseau (110) afin de determiner si de quelconques impressions associees au dispositif d'interrogation d'imprimante (100) sont pretes a

etre imprimees sur une imprimante (120) associee. Le serveur d'interrogation (50) n'a pas besoin d'entrer en contact avec l'imprimante (120) a travers un coupe-feu, du fait que ledit serveur est interroge par le dispositif d'interrogation d'imprimante (100). Ainsi, la securite du reseau est conserveree. Les services d'impression rendus peuvent etre payants.

Legal Status (Type, Date, Text)

Publication 20020425 A2 Without international search report and to be republished upon receipt of that report.  
Search Rpt 20020822 Late publication of international search report  
Republication 20020822 A3 With international search report.  
Republication 20020822 A3 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.  
Examination 20021219 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: G06F-003/12

Fulltext Availability:

Detailed Description

Detailed Description

... server 50 needs to verify that it is indeed talking to the actual user.

The **server** generates a random string of bits 350. These bits are sent to the **printer** polling device 100 where **authentication** is to take place. The user's PIN 150 is used to generate an encryption **key** 152 for encrypting the bits (indicated at 155) and the result is returned to the ...

27/5,K/25 (Item 25 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00899459 \*\*Image available\*\*

PRINTER POLLING APPARATUS AND METHODS FOR REQUESTING AND RECEIVING PRINT JOBS OVER A NETWORK

APPAREIL D'APPEL POUR DISPOSITIFS D'IMPRESSION ET PROCEDES PERMETTANT DE DEMANDER ET DE RECEVOIR DES TRAVAUX D'IMPRESSION PAR L'INTERMEDIAIRE D'UN RESEAU

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Street, Building No. 8, Monroe, CT 06468, US,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 200233531 A2-A3 20020425 (WO 0233531)  
Application: WO 2001US32289 20011016 (PCT/WO US0132289)  
Priority Application: US 2000688567 20001016  
Designated States:  
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)  
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL  
TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Main International Patent Class: G06F-003/12  
Publication Language: English  
Filing Language: English  
Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 12411

#### English Abstract

The present invention relates to methods and apparatus for requesting and receiving print jobs over a communications network. In particular, the present invention enables a user to obtain print jobs at a location which may be unspecified, and which may be remote from the source of the print job. A spooling server (50) is used to store a print job received via the network from a print job source (10). A printer polling device (100), which may be used at a location remote from the client device (10), is capable of polling the spooling server (50) via the network (110) to identify whether any print jobs associated with the printer polling device (100) are available for printing at a printer (120) currently associated with the polling device (100). The spooling server (50) need not initiate contact with the printer (120) through a firewall, since it is polled by the printer polling device (100). Thus, network security is maintained.

#### French Abstract

La presente invention se rapporte a des procedes et a un appareil permettant de demander et de recevoir des travaux d'impression par l'intermediaire d'un reseau de transmission. En particulier, la presente invention permet a l'utilisateur d'obtenir des travaux d'impression a un emplacement qui peut ne pas etre specifie, et qui peut etre eloigne de la source du travail d'impression. Un serveur d'impression differee (50) est utilise pour stocker un travail d'impression recu par l'intermediaire du reseau a partir d'une source de travaux d'impression (10). Un dispositif d'appel (100) pour dispositifs d'impression, qui peut etre utilise a un emplacement eloigne du dispositif client (10), peut inviter le serveur d'impression differee (50) a emettre des impressions par l'intermediaire du reseau (110) pour determiner si de quelconques travaux d'impression associes au dispositif d'appel (100) sont disponibles pour impression sur une imprimante (120) actuellement associee au dispositif d'appel (100). Le serveur d'impression differee (50) n'a pas besoin d'établir un contact avec l'imprimante (120) au moyen d'un pare-feu, car la liaison s'effectue par le biais du dispositif d'appel (100), maintenant ainsi la securite du reseau.

#### Legal Status (Type, Date, Text)

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Search Rpt 20030116 Late publication of international search report  
Republication 20030116 A3 With international search report.

Main International Patent Class: G06F-003/12

Fulltext Availability:

Detailed Description

Detailed Description

... server 50 needs to verify that it is indeed talking to the actual user.

The **server** generates a random string of bits 350. These bits are sent to the **printer** polling device 100 where **authentication** is to take place. The user's PIN 150 is used to generate an encryption **key** 152 for encrypting the bits (indicated at 155) and the result is returned to the ...

**27/5,K/26 (Item 26 from file: 349)**

DIALOG(R) File 349:PCT FULLTEXT

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00899458 \*\*Image available\*\*

**SPOOLING SERVER APPARATUS AND METHODS FOR RECEIVING, STORING AND FORWARDING A PRINT JOB OVER A NETWORK**

**SERVEUR D'IMPRESSION DIFFEREE ET PROCEDES DE RECEPTION, DE STOCKAGE ET D'EMISSION D'UNE IMPRESSION SUR UN RESEAU**

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200233530 A1 20020425 (WO 0233530)  
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Priority Application: US 2000688475 20001016

Designated States:

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL  
TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-003/12

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 12466

#### English Abstract

The present invention relates to methods and apparatus for receiving, storing, and forwarding print jobs over a communications network. In particular, the present invention enables a user to obtain print jobs at a location which may be unspecified, and which may be remote from the source of the print job. A spooling server (50) is used to store a print job received via the network from a print job source (10). A printer polling device (100), which may be used at a location remote from the client device (10), is capable of polling the spooling server (50) via the network (110) to identify whether any print jobs associated with the printer polling device (100) are available for printing at a printer (120) currently associated with the polling device (100). The spooling server (50) need not initiate contact with the printer (120) through a firewall, since it is polled by the printer polling device (100). Thus, network security is maintained.

#### French Abstract

La presente invention concerne des procedes et des appareils pour recevoir, stocker, et envoyer des impressions sur un reseau de communication. En particulier, la presente invention permet a un utilisateur d'obtenir des impressions en un emplacement qui peut etre non specifie, et qui peut etre eloigne de la source de l'impression. Un serveur d'impression differee (50) est utilise pour stocker une impression recue via le reseau a partir d'une source d'impressions (10). Un dispositif de scrutation de l'imprimante (100) qui peut etre utilise en un emplacement eloigne du dispositif du client (10) permet de scruter le serveur d'impression differee (50) via le reseau (110) pour identifier si des impressions associees au dispositif de scrutation de l'imprimante (100) sont disponibles pour etre imprimees au niveau d'une imprimante (120) associee au dispositif scrutateur (100). Le serveur (50) n'a pas besoin d'initier le contact avec l'imprimante (120) via un pare-feu, etant donne qu'il est scrute par le dispositif de scrutation (100) de l'imprimante, ce qui assure la securite du reseau.

#### Legal Status (Type, Date, Text)

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Examination 20021114 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: G06F-003/12

Fulltext Availability:

Detailed Description

#### Detailed Description

... server 50 needs to verify that it is indeed talking to the actual user.

The **server** generates a random string of bits 350. These bits are sent to the **printer** polling device 100 where **authentication** is to take

place. The user's PIN 150 is used to generate an encryption key 152 for encrypting the bits (indicated at 155) and the result is 5 returned to...

27/5,K/27 (Item 27 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00897828 \*\*Image available\*\*

**REMOTE PRINTING OF SECURE AND/OR AUTHENTICATED DOCUMENTS**

**IMPRESSION A DISTANCE DE DOCUMENTS SECURISES ET/OU AUTHENTIFIES**

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KANG Alban (et al) (agent), Alban Tay Mahtani & De Silva, 39 Robinson  
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**Patent and Priority Information (Country, Number, Date):**

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Application: WO 2001SG151 20010716 (PCT/WO SG0100151)  
Priority Application: SG 20005827 20001011

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-009/32

International Patent Class: G06F-003/12 ; G06F-013/00; H04N-001/44

Publication Language: English

Filing Language: English

**Fulltext Availability:**

Detailed Description  
Claims

Fulltext Word Count: 18683

**English Abstract**

A method for the remote printing of a document by use of a network, the method including the steps of: (a) receiving at a server the document as sent from a sender; (b) the server forwarding the document to a recipient; (c) the document being authenticated prior to being forwarded to the recipient; and (d) the server receiving instructions from the sender regarding printing controls and the server implementing those controls on the recipient. A hardware device to support the printing controls is also disclosed.

**French Abstract**

Cette invention se rapporte à un procédé qui sert à imprimer à distance un document à l'aide d'un réseau et qui consiste à cet effet: (a) à recevoir au niveau d'un serveur le document envoyé par un expéditeur; (b) pour le serveur, à acheminer le document à un destinataire; (c) le document étant authentifié avant d'être acheminé au destinataire; et (d) pour le serveur, à recevoir des instructions en provenance de l'expéditeur au sujet des commandes d'impression et à exécuter ces commandes à l'intention du destinataire. Un dispositif matériel prenant en charge les commandes d'impression est également décrit.

Legal Status (Type, Date, Text)

Publication 20020418 A1 With international search report.

Examination 20020516 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: H04L-009/32

International Patent Class: G06F-003/12 ...

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... and the secure clock can be used to keep time.

Preferably, the printer and the **server** use a public **key** pair or symmetry **key** of the **printer** to perform secure handshaking to authenticate each other.

The **server** may send an encrypted document hash and optical watermark, and printing instructions, to the printer...

...with an on-chip program, and an interface; the hardware device being registered with the **server**. The machine may include the printer, the hardware device being integral with the **printer**; the **printer** being registered with the **server**.

The secure memory may have an accessible memory that can be accessed only when a **password** of a user is entered and verified, the access being only to a block of...secure in the sense that it prevents attacks from outside to the clock, to the **key** and program, and to the run-time program.

When a user requests authority to print an authenticated copy, the **server** system communicates with the printer to complete the handshaking process via the client.

After successful **authentication** of the **printer** and the **server** system based on public **key** pairs, the **server** system sends the encrypted hash and optical watermark with time stamp, as well as printing ...up process. A set of unique user ID keys and initial passwords corresponding to each **key** set is stored in the hardware device's secure memory. A copy of all these **keys** is also stored in the trusted **server**. The sender and receiver, as well as their hardware devices, have to be registered with the trusted **server** before using the secure **printing** process.

Receiver's **registration** process

The receiver should register with the trusted **server** before receiving documents. The registering process may be.

I . the receiver requests registration at the **server** by providing their information such as user name, email address, as well as the ID of their hardware device; 2. the server processes the receiver's request. If approved, the...is kept empty (written with zeros) when it is manufactured. A copy of all necessary **keys** is also stored in the trusted **server** . All senders and receivers, and their hardware devices, have to be registered with the trusted **server** together before they can use the secure **printing** process.

The receiver's **registration** process is the same as that mentioned in scheme 1 and includes.

1 the sender connects to the trusted **server** through a secure link (e.g. SSQ using  
their user ID and **password** ;  
2. after successful authentication, the sender prepares their document by.

a) encrypting the document or...are license keys and are used to encrypt the unique seal. The TKey (Top-up **Key** ) is used in the top up process. A copy of all these **keys** is also stored in the trusted **server** . All senders and receivers, together with their hardware devices, have to registered with the trusted **server** before using the secure **printing** process.

The receiver's **registration** process is somewhat easier than that described above, and includes.

I . the receiver raises a request for registration at the **server** by providing their information such as, for example, user name, email address;  
2. the server...

#### Claim

... keep time. 29) A method as claimed in claim 27, wherein the printer and the **server** system perform secure handshaking to **authenticate** each other, the **printer** and the **server** using one or more selected from the group consisting of a public **key** pair or the symmetry **key** of the printer. 30) A method as claimed in claim 27, wherein the server sends...

...attack on the client software. 36) A method as claimed in claim 35, wherein the **server** 'communicates with the **printer** through the client software to **verify** the **printer serial number** and internet protocol address, check the status of the printer, locks a control panel of...

...with an on-chip program, and an interface; the hardware device being registered with the **server** . 46) A method as claimed in claim 43 or claim 44, wherein the machine includes the printer, the hardware device being integral with the **printer** ; the **printer** being **registered** with the **server** . 47) A method as claimed in claim 45, wherein the secure memory has an accessible memory that can be accessed only when a **password** of a user is entered and verified, the access being only to a block of...

00788838      \*\*Image available\*\*

**BUSINESS CARD AS ELECTRONIC MAIL AUTHORIZATION TOKEN**

**CARTES PROFESSIONNELLES UTILISEES EN TANT QUE JETON D'AUTORISATION DE COURRIER ELECTRONIQUE**

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only for: US)

**Legal Representative:**

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**Patent and Priority Information (Country, Number, Date):**

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Application: WO 2000AU1108 20000915 (PCT/WO AU0001108)

Priority Application: AU 992912 19990917

**Designated States:**

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

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International Patent Class: H04L-009/32

Publication Language: English

Filing Language: English

**Fulltext Availability:**

Detailed Description

Claims

Fulltext Word Count: 33484

**English Abstract**

The present invention provides a method of enabling a first user to obtain, using a business card of a second user, authority to transmit electronic mail to the second user, the business card including coded data indicative of the identity of the business card and of at least one reference point of the business card, the method including the steps of: receiving, in a computer system, indicating data from a sensing device regarding the identity of the business card and a position of the sensing device relative to the business card, the sensing device, when placed in an operative position relative to the business card, sensing the indicating data using at least some of the coded data; identifying, in the computer system and from the indicating data a request to authorise the transmission of electronic mail from the first to the second user; and recording, in the computer system, an authority allowing the first user to transmit electronic mail to the second user.

**French Abstract**

La presente invention se rapporte à un procédé visant à permettre à un premier utilisateur d'obtenir, au moyen d'une carte professionnelle d'un second utilisateur, l'autorisation de transmettre du courrier

electronique au second utilisateur, ladite carte professionnelle comportant des donnees codees representatives de l'identite de la carte professionnelle et d'au moins un point de reference de la carte professionnelle. Ledit procede consiste a recevoir, dans un systeme informatique, des donnees representatives en provenance d'un dispositif capteur qui concernent l'identite de la carte professionnelle et une position dudit dispositif capteur par rapport a la carte professionnelle, ledit dispositif capteur etant conçu pour capter, lorsqu'il est place dans une position operationnelle par rapport a la carte professionnelle, les donnees representatives au moyen d'au moins certaines des donnees codees; a identifier, dans le systeme informatique et a partir des donnees representatives, une demande d'autorisation de transmission du courrier electronique du premier vers le second utilisateur; et a enregistrer, dans le systeme informatique, une autorisation permettant au premier utilisateur d'emettre le courrier electronique a destination de second utilisateur.

Legal Status (Type, Date, Text)

Publication 20010329 A1 With international search report.

Examination 20010621 Request for preliminary examination prior to end of 19th month from priority date

International Patent Class: H04L-009/32

Fulltext Availability:

Detailed Description

Detailed Description

... reference is made to the secure transmission of information between a netpage printer and a **server**, what actually happens is that the **printer** obtains the **server**'s certificate, **authenticates** it with reference to the certificate authority, uses the public **key** -exchange **key** in the certificate to exchange a secret session **key** with the **server**, and then uses the secret session **key** to encrypt the message data.

A session **key**, by definition, can have an arbitrarily short lifetime.

### 3.2 NETPAGE PRINTER SECURITY

Each netpage printer is assigned a pair of unique **identifiers** at time of manufacture which are stored in read-only memory in the **printer** and in the netpage **registration server** database. The first ID 62 is public and uniquely identifies the printer on the netpage network. The second ID is secret and is used when the printer is first registered on the network.

When...

...the IDs match. It then creates and signs a certificate containing the printer's public ID and public signature **key**, and stores the certificate in the registration database.

The netpage registration **server** acts as a ...certificate authority for netpage printers, since it has access to secret information allowing it to **verify** **printer** identity.

- 42 When a user subscribes to a publication, a record is created in the netpage registration **server** database authorizing the publisher to print the publication to the user's default printer or...

...a particular user and is signed by the publisher using the publisher's private signature **key**. The page server verifies, via the registration

database, that the publisher is authorized to deliver the publication to the specified user. The page **server** verifies the signature using the publisher's public **key**, obtained from the publisher's certificate stored in the registration database.

The netpage **registration server** accepts requests to add **printing authorizations** to the database, so long as those requests are initiated via a pen **registered** to the **printer**.

#### 0 3.3 NETPAGE PEN SECURITY

Each netpage pen is assigned a unique **identifier** at time of manufacture which is stored in readonly memory in the pen and in...

**27/5,K/29 (Item 29 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT  
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00769387 \*\*Image available\*\*

**DIGITAL CAMERA WITH INTERACTIVE PRINTER**

**APPAREIL PHOTO NUMERIQUE EQUIPE D'UNE IMPRIMANTE INTERACTIVE**

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200102905 A1 20010111 (WO 0102905)

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Priority Application: AU 991313 19990630

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G03B-015/00

International Patent Class: G03B-017/00; G03B-019/02; G03B-027/00; G03B-029/00; G06F-003/12 ; G06T-001/00; H04N-005/222

Publication Language: English

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Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 34861

**English Abstract**

A camera for capturing an image and printing a first interface onto a first surface, in response to a user input, and for printing a second interface onto a second surface, in response to first indicating data received from a sensing device in the form of a stylus. The first indicating data is sensed by the stylus from first coded data. The first interface includes the first coded data. The camera includes a camera module, an input module and a printing module. The camera module includes an image sensor. The camera module is configured to receive a user input, and, in response to the user input, capture the image via the image sensor. The input module is configured to receive the first indicating data from the stylus, the first indicating data being at least partially indicative of response data. The input module generates second indicating data based on the first indicating data, the second indicating data being at least partially indicative of the response data. The second indicating data is sent to a computer system. The printing module includes a printing mechanism. The printing module is configured to receive the image from the camera module and print the first interface onto the first surface using the printing mechanism. The first interface is based at least partly on the image. The printing module is also configured to receive the response data from the computer system and print the second interface onto the second surface using the printing mechanism. The second interface is based at least partially on the response data.

**French Abstract**

L'invention concerne un appareil photo permettant de capturer une image et d'imprimer, d'une part, une premiere interface sur une premiere surface suite a une entree de l'utilisateur et, d'autre part, une seconde interface sur une seconde surface suite aux premieres donnees d'indication transmises par un capteur presentant la forme d'un stylet. Les premieres donnees d'indication sont captees par le stylet a partir des premieres donnees codees. La premiere interface comprend les premieres donnees codees. L'appareil photo comprend un module appareil photo et un module imprimante. Le module appareil photo comprend un capteur d'image. Il est conçu pour recevoir une entree de l'utilisateur, et, suite a cette entree, pour capturer l'image par l'intermediaire du capteur d'image. Le module d'entree est conçu pour recevoir les premieres donnees d'indication transmises par le stylet, ces donnees representant, au moins en partie, les donnees de reponse. Le module d'entree produit des secondes donnees d'indication basees sur les premieres donnees d'indication. Ces secondes donnees representent, au moins en partie, les donnees de reponse. Les secondes donnees d'indication sont transmises a un systeme informatique. Le module imprimante comprend un mecanisme d'impression. Il est conçu pour recevoir l'image transmise par le module appareil photo et pour imprimer la premiere interface sur une premiere surface par l'intermediaire du mecanisme d'impression. Le module imprimante est egalement conçu pour recevoir les donnees de reponse transmises par le systeme informatique et pour imprimer la seconde interface sur la seconde surface par l'intermediaire du mecanisme d'impression. La seconde interface se fonde, au moins en partie, sur les donnees de reponse.

**Legal Status (Type, Date, Text)**

Publication 20010111 A1 With international search report.  
Examination 20010315 Request for preliminary examination prior to end of  
19th month from priority date

...International Patent Class: G06F-003/12

Fulltext Availability:

## Detailed Description

### Detailed Description

... reference is made to the secure transmission of information between a netpage printer and a **server**, what actually happens is that the **printer** obtains the **server**'s certificate, **authenticates** it with reference to the certificate authority, uses the public **key**-exchange **key** in the certificate to exchange a secret session **key** with the **server**, and then uses the secret session **key** to encrypt the message data. A session **key**, by definition, can have an arbitrarily short lifetime.

### 3.2 NETPAGE PRINTER SECURITY

Each netpage printer is assigned a pair of unique **identifiers** at time of manufacture which are stored in readonly memory in the **printer** and in the netpage **registration server** database. The first ID 62 is public and uniquely identifies the printer on the netpage network. The second ID is secret and is used when the printer is first registered on the network.

When...

...the IDs match. It then creates and signs a certificate containing the printer's public ID and public signature **key**, and stores the certificate in the registration database.

The netpage registration **server** acts as a certificate authority for netpage printers, since it has access to secret information allowing it to **verify** **printer** identity.

When a user subscribes to a publication, a record is created in the netpage registration **server** database authorizing the publisher to print the publication to the user's default printer or...

...a particular user and is signed by the publisher using the publisher's private signature **key**. The page server verifies, via the registration database, that the publisher is authorized to deliver the O publication to the specified user. The page **server** verifies the signature using the publisher's public **key**, obtained from the publisher's certificate stored in the registration database.

The netpage **registration server** accepts requests to add **printing authorizations** to the database, so long as those requests are initiated via a pen **registered** to the **printer**.

### 3.3 NETPAGE PEN SECURITY

Each netpage pen is assigned a unique **identifier** at time of manufacture which is stored in read-only memory in the pen and...

? t27/5, k/30-31

27/5,K/30 (Item 30 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00759082 \*\*Image available\*\*  
**NETWORK PUBLISHING AUTHORIZATION PROTOCOL**  
**PROTOCOLE D'AUTORISATION DE PUBLIER POUR RESEAU**  
Patent Applicant/Assignee:  
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Balmain, NSW 2041, AU, AU (Residence), AU (Nationality), (For all  
designated states except: US )  
Patent Applicant/Inventor:  
LAPSTUN Paul, 13 Duke Avenue, Rodd Point, NSW 2046, AU, AU (Residence),  
AU (Nationality), (Designated only for: US)  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 200072505 A1 20001130 (WO 0072505)  
Application: WO 2000AU541 20000524 (PCT/WO AU0000541)  
Priority Application: AU 99559 19990525; AU 991313 19990630  
Designated States:  
(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)  
AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES  
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU  
LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR  
TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Main International Patent Class: H04L-009/32  
International Patent Class: G06F-003/12  
Publication Language: English  
Filing Language: English  
Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 30383  
  
English Abstract  
A network publishing authorization protocol, for use in a network  
connected to a printer, a server and a publisher of network publications.  
The protocol authorizes the printing of a publication at the printer. It  
includes the steps of: addressing the publication to a user; signing the  
publication using a private **key**; sending the publication to the  
printer; and confirming that the publication may be printed at the  
**printer**, by **verifying** the private **key** signature. Confirmation may  
take place at the printer or at the **server**.  
  
French Abstract  
L'invention porte sur un protocole d'autorisation de publier pour reseau  
relie a une imprimante a un serveur et a un editeur de publications du  
reseau. Ledit protocole, qui autorise l'impression d'une publication sur  
une imprimante, comprend les phases suivantes: adressage d'une  
publication a un abonne, signature de la publication a l'aide d'un code  
prive; transfert de la publication a l'imprimante, et confirmation de  
l'autorisation d'impression par verification de la signature par code  
prive, ladite confirmation pouvant se faire au niveau de l'imprimante ou  
du serveur.  
  
Legal Status (Type, Date, Text)  
Publication 20001130 A1 With international search report.  
Examination 20010222 Request for preliminary examination prior to end of  
19th month from priority date  
  
Main International Patent Class: H04L-009/32  
International Patent Class: G06F-003/12  
Fulltext Availability:  
Detailed Description

because the pen belongs to a user who is registered to use the printer . The printer sends its own printed ID 62, together with the pen ID , to the registration server . The registration server determines if a printer record 802 and a pen record 801 are linked to the same user record 800 in the registration server database 74. If the printer is meant to know the pen but doesn't, then it initiates the automatic pen registration procedure described below. If the printer isn't meant to know the pen, then it agrees with the pen to ignore...credit 415 to the original page server together with the hyperlink request II). The page server uses the hyperlink request ID to identify the printer, and sends the credit on to the relevant registration server together with the printer ID . The registration server credits the corresponding printer provider account 814.

The source application provider is optionally notified of the identity of the...

Claim

... and confirming that the publication may be printed at the printer, by verifying the private key signature.

2 A network publishing authorization protocol according to claim 1, including the further step of registering the user with a printer by creating a record in a database of a first server connected to the O network.

3 A network publishing authorization protocol according to claim 2...

...step of verifying the publisher's signature at the printer using the publisher's public key , obtained from the first server . i i. A network publishing authorization protocol according to claim 9, including the further step of verifying at the printer that the printer is registered for the user, by accessing the first server .

12 A network publishing authorization protocol according to claim 5, including the further step of...

...of verifying the publisher's signature at the second server using the publisher's public key , obtained from the first server .

24 A network publishing authorization protocol according to claim 23, including the further step of. verifying at the second server that the printer is registered for the user, by accessing the first server .

/47

REQUEST FORM 000000000  
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27/5,K/31 (Item 31 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00759080 \*\*Image available\*\*

**INTERACTIVE DEVICE NETWORK REGISTRATION PROTOCOL  
PROTOCOLE D'ENREGISTREMENT RESEAU DE DISPOSITIF INTERACTIF**

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**Patent and Priority Information (Country, Number, Date):**

Patent: WO 200072503 A1 20001130 (WO 0072503)

Application: WO 2000AU543 20000524 (PCT/WO AU0000543)

Priority Application: AU 99559 19990525; AU 991313 19990630; AU 20005829 20000224

**Designated States:**

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-009/30

Publication Language: English

Filing Language: English

**Fulltext Availability:**

Detailed Description

Claims

Fulltext Word Count: 29305

**English Abstract**

In a network connected to an interactive device and a registration server, a protocol for registering the interactive device with the registration server, including the steps of: installing a secret key and a public unique identifier in non-volatile memory in the interactive device and in a database of the registration server, before the interactive device is connected to the network; then, when the interactive device is connected to the network, authenticating the interactive device at the server by verifying the interactive device's encryption, using the secret key, of a challenge message; and finally, if the authentication succeeds, registering the interactive device in the database of the registration server.

**French Abstract**

Cette invention a trait a un protocole d'enregistrement de dispositif interactif a un serveur d'enregistrement dans un reseau connecte a un dispositif interactif et a un serveur d'enregistrement. Ce protocole comporte les operations suivantes : mise en place d'une clef secrete et d'un identificateur unique public dans la memoire remanente du dispositif interactif et dans une base de donnees du serveur d'enregistrement avant la connexion du dispositif interactif au reseau puis, une fois le dispositif interactif connecte au reseau, authentification du dispositif interactif aupres du serveur par verification dans un message test du chiffrage du dispositif interactif, lequel chiffrage utilise la clef secrete et enfin, si l'authentification aboutit, enregistrement du

the user requests a Web terminal **authorization** page via the **printer** 601. The netpage **registration server** generates a short-lifetime one-time-use authorization ID 412 for the Web terminal which is printed on the authorization page 413, together with...

...well as the URI of the printer. The Web terminal generates a signature public/private **key** pair 95, 96, and transmits the public **key** 95 to the registration **server**. The **server** allocates a terminal ID 68 for the Web terminal, and stores an authorization record 809 in the registration **server** database linked to the **printer** and containing the terminal ID and public **key**. The URI of the printer, the Web terminal's terminal ID, and the private signature **key** 96 are stored locally in the Web terminal's database 76.

A preferred embodiment of...

...a digital signature 418 to the request, created using the Web terminal's private signature **key** 96. On receipt of the request and before acting on it, the formatting **server** verifies, via the registration **server** 1 1, that the terminal is authorized to print on the specified **printer**. The registration **server** verifies, via the Web terminal record 809 in the registration **server** database, that the terminal is authorized to print to the **printer**, and verifies the digital signature using the terminal's public **key** 95.

The user can print a list of current printing authorizations at any time, and...

...whether they already know each other.

If they don't know each other, then the **printer** determines, via the registration **server** I 1, whether it is supposed to know the pen. This might be, for example, because the pen belongs to a user who is registered to use the **printer**. The **printer** sends its own printed ID 62, together with the pen U), to the registration **server**. The registration **server** determines if a **printer** record 802 and a pen record 801 are linked to the same user record 800 in the registration **server** database 74. If the **printer** is meant to know the pen but doesn't, then it initiates the automatic pen registration procedure described below. If the **printer** isn't meant to know the pen, then it agrees with the pen to ignore...the printer provider credit 415 to the original page server together with the hyperlink request ID . The page **server** uses the hyperlink request ID to identify the printer, and sends the credit on to the relevant registration **server** together with the **printer** H). The registration **server** credits the corresponding **printer** provider account 814.

'Me source application provider is optionally notified of the identity of the...

? t27/5/32

27/5/32 (Item 32 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00759076 \*\*Image available\*\*  
NETWORK PRINTER REGISTRATION PROTOCOL  
PROTOCOLE D'ENREGISTREMENT D'UNE IMPRIMANTE DANS UN RESEAU  
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Balmain, NSW 2041, AU

Patent and Priority Information (Country, Number, Date):

Patent: WO 200072499 A1 20001130 (WO 0072499)

Application: WO 2000AU540 20000524 (PCT/WO AU0000540)

Priority Application: AU 99559 19990525; AU 991313 19990630

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES  
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU  
LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR  
TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-009/00

International Patent Class: H04L-012/24

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 29585

English Abstract

In a network connected to a printer and a registration server, a network registration protocol for registering the printer on the network includes the steps of installing a secret unique **identifier** and public unique **identifier** in non-volatile memory in the printer and in a database of the **registration server**, before the **printer** is connected to the network; then, when the **printer** is connected to the network, authenticating the **printer** to the **server** by comparison of the secret unique **identifiers** installed in printer and **server**, using a secure transmission between the two over the network. Also a network registration signal for transmission over a network from a **printer** to a **registration server** to register the **printer** with the **server**, where the signal is transmitted at the first occasion the printer is connected to the network.

French Abstract

Dans un reseau relie a une imprimante et a un serveur d'enregistrement, on utilise pour enregistrer l'imprimante dans le reseau un protocole d'enregistrement comportant les phases suivantes: installation d'un identificateur secret unique et d'un identificateur publique unique dans une memoire non volatile de l'imprimante et dans la base d'enregistrement du serveur avant de raccorder l'imprimante au reseau; apres raccordement de l'imprimante, authentification imprimante/serveur par comparaison entre les identificateurs secrets uniques de l'imprimante et du serveur;

et utilisation d'une transmission sure transitant par le reseau entre l'imprimante et le serveur. L'invention porte egalement sur le signal d'enregistrement de l'imprimante dans le serveur d'enregistrement, transitant par le reseau et allant de l'imprimante au serveur, et transmis lorsque l'imprimante est reliee pour la premiere fois au reseau.

Legal Status (Type, Date, Text)

Publication 20001130 A1 With international search report.  
Examination 20010215 Request for preliminary examination prior to end of  
19th month from priority date  
? t27/5, k/33-34

27/5,K/33 (Item 33 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT  
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00758749 \*\*Image available\*\*

METHOD AND SYSTEM FOR DISTRIBUTING DOCUMENTS

PROCEDE ET SYSTEME POUR LA DISTRIBUTION DE DOCUMENTS

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only for: US )

Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200072137 A1 20001130 (WO 0072137)  
Application: WO 2000AU559 20000524 (PCT/WO AU0000559)  
Priority Application: AU 99559 19990525; AU 991313 19990630

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES  
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU  
LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR  
TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-003/12

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 27366

English Abstract

A method of distributing documents, via a communications network, to a plurality of receiving stations associated with a plurality of users. At least one document layout is pointcast to each receiving station, the document layout being associated with a predetermined user and defining one or more data objects such as text, images and graphics. Collections of shared data objects are then multicast, via the communications

network, to the receiving stations on the basis of the respective users' document layouts. Each collection is only transmitted to those receiving stations whose users' document layouts include data objects in that collection.

#### French Abstract

L'invention concerne un procede de distribution de documents, par un reseau de communication, a plusieurs stations receptrices associees a plusieurs utilisateurs. Au moins une presentation de document est envoyee par diffusion a destination unique a chaque station receptrice, la presentation du document etant associee a un utilisateur predetermine et definissant un ou plusieurs objets de donnees, tels que le texte, les images et les motifs graphiques. Des collections d'objets de donnees partages sont ensuite envoyees par multidiffusion, par le reseau de communications, aux stations receptrices, en fonction des presentations des documents des utilisateurs respectifs. Chaque collection n'est transmise qu'aux stations receptrices dont les presentations de documents d'utilisateur comprennent les objets de donnees de ladite collection.

#### Legal Status (Type, Date, Text)

Publication 20001130 A1 With international search report.  
Examination 20010222 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: G06F-003/12

Fulltext Availability:

Detailed Description

#### Detailed Description

... reference is made to the secure transmission of information between a netpage printer and a **server**, what actually happens is that the **printer** obtains the **server**'s certificate, **authenticates** it with reference to the certificate authority, uses the public **key** -exchange **key** in the certificate to exchange a secret session **key** with the **server**, and then uses the secret session **key** to encrypt the message data. A session **key**, by definition, can have an arbitrarily short lifetime.

#### 3.2 NETPAGE PRINTER SECURITY

Each netpage printer is assigned a pair of unique **identifiers** at time of manufacture which are stored in readonly memory in the **printer** and in the netpage **registration server** database. The first **ID** 62 is public and uniquely identifies the printer on the netpage network. The second **ID** is secret and is used when the printer is first registered on the network.

When a certificate containing the printer's public **ID** and public signature **key**, and stores the certificate in the registration database.

The netpage registration **server** acts as a certificate authority for netpage printers, since it has access to secret information allowing it to **verify** **printer** identity.

-26 When a user subscribes to a publication, a record is created in the netpage registration **server** database authorizing the publisher to print the publication to the user's default printer or...

...a particular user and is signed by the publisher using the publisher's private signature **key**. The page server verifies, via the registration database, that the publisher is authorized to deliver the publication to

the specified user. The page **server** verifies the signature using the publisher's public **key**, obtained from the publisher's certificate stored in the registration database.

The netpage **registration server** accepts requests to add **printing authorizations** to the database, so long as those requests are initiated via a pen **registered** to the **printer**.

### 3.3 NETPAGE PEN SECURITY

0 Each netpage pen is assigned a unique **identifier** at time of manufacture which is stored in read-only memory in the pen and...sends the printer provider credit to the original page server together with the hyperlink request **ID**. The page **server** uses the hyperlink request **ID** to identify the printer, and sends the credit on to the relevant **registration server** together with the **printer ID**. The **registration server** credits the corresponding **printer provider** account 814.

The source application provider is optionally notified of the identity of the...

27/5,K/34 (Item 34 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00758748 \*\*Image available\*\*

NETWORK TERMINAL AUTHORIZATION PROTOCOL  
PROTOCOLE D'AUTORISATION POUR TERMINAL DE RESEAU

Patent Applicant/Assignee:

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designated states except: US )

Patent Applicant/Inventor:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200072136 A1 20001130 (WO 0072136)  
Application: WO 2000AU542 20000524 (PCT/WO AU0000542)  
Priority Application: AU 99559 19990525; AU 991313 19990630

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES  
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU  
LV MA MD MG MK MN MW MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR  
TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-003/12

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 29425

#### English Abstract

A network terminal authorization protocol, for use in a network connected to a printer, a server and a network terminal. The protocol authorizes, via the server, the printing of a document at the printer at the request of the network terminal. It includes the steps of: creating, at the server, an authorization record authorizing the network terminal to print at the printer; requesting, at the network terminal and via a printing request, printing of the document at the printer; verifying, using the authorization record, that the network terminal is authorized to print at the printer; and, in the event that the verification succeeds, sending the document to the printer for printing.

#### French Abstract

L'invention concerne un protocole d'autorisation pour terminal de reseau, qui s'utilise dans un reseau relie a une imprimante, un serveur et un terminal de reseau. Le protocole autorise, par l'intermediaire du serveur et a la demande du terminal de reseau, l'impression d'un document au moyen de l'imprimante. Le procede d'utilisation consiste a creer, au niveau du serveur, un enregistrement d'autorisation autorisant le terminal de reseau a imprimer au moyen de l'imprimante; a demander, au niveau du terminal de reseau et par le biais d'une demande d'impression, l'impression du document au moyen de l'imprimante; a verifier, grace a l'enregistrement d'autorisation, que le terminal de reseau est autorise a imprimer au moyen de l'imprimante; et, apres verification concluante, a envoyer le document a l'imprimante pour impression.

#### Legal Status (Type, Date, Text)

Publication 20001130 A1 With international search report.  
Examination 20010222 Request for preliminary examination prior to end of 19th month from priority date

#### Main International Patent Class: G06F-003/12

#### Fulltext Availability:

Detailed Description  
Claims

#### Detailed Description

... the second server validates the request with reference to the first server. The first **server** may be a registration **server**, which, among other things, records network terminal authorizations. The second **server** may be a formatting **server** which formats documents for printing at the **printer**.

Preferably, the **authorization** record includes an **identifier** for the terminal, an **identifier** for the printer, and a public signature **key** of the terminal. Preferably also, the printing request contains the identifier for the terminal, the...

...request contains the document to be printed. In another embodiment, the printing request contains an **identifier** of the document.

Preferably, an **authorization** identifier is requested via the **printer** from the first **server**, and subsequently printed at the printer together with the **printer identifier**. Preferably, the **authorization identifier** is submitted, together with the **printer identifier**, via the network terminal to the first **server**, as part of a request to authorize the network terminal to print at the printer. Preferably also, the first **server** creates the **authorization record** on behalf of the network terminal in response to the request, authorizing the network terminal to print at the **printer**, unless the **authorization**

File 696:DIALOG Telecom. Newsletters 1995-2004/Nov 16  
(c) 2004 The Dialog Corp.  
File 15:ABI/Inform(R) 1971-2004/Nov 17  
(c) 2004 ProQuest Info&Learning  
File 112:UBM Industry News 1998-2004/Jan 27  
(c) 2004 United Business Media  
File 141:Readers Guide 1983-2004/Sep  
(c) 2004 The HW Wilson Co  
File 484:Periodical Abs Plustext 1986-2004/Nov W2  
(c) 2004 ProQuest  
File 608:KR/T Bus.News. 1992-2004/Nov 17  
(c) 2004 Knight Ridder/Tribune Bus News  
File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc  
File 635:Business Dateline(R) 1985-2004/Nov 17  
(c) 2004 ProQuest Info&Learning  
File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire  
File 369:New Scientist 1994-2004/Nov W1  
(c) 2004 Reed Business Information Ltd.  
File 370:Science 1996-1999/Jul W3  
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(c) 2004 The Dialog Corp.  
File 624:McGraw-Hill Publications 1985-2004/Nov 15  
(c) 2004 McGraw-Hill Co. Inc  
File 634:San Jose Mercury Jun 1985-2004/Nov 14  
(c) 2004 San Jose Mercury News  
File 647:CMP Computer Fulltext 1988-2004/Nov W1  
(c) 2004 CMP Media, LLC  
File 674:Computer News Fulltext 1989-2004/Sep W1  
(c) 2004 IDG Communications

Set	Items	Description
S1	553165	PRINTER? ? OR PRINTING
S2	2669530	REGIST? OR REGISTRY? OR ENROLL?
S3	1271052	AUTHENTICAT? OR VALIDAT? OR CERTIFY? OR CERTIFIE?? ? OR CE- RTIFICATION? OR VERIFY? OR VERIFIIE?? ? OR VERIFICATION?
S4	3661445	SUBSTANTIAT? OR AUTHORIS? OR AUTHORIZ? OR APPROV??? ?
S5	671142	ID OR IDS OR IDENTIFIER? OR SERIAL(1W)NUMBER? ? OR PASSWOR- D? OR PASSCODE? OR CODEWORD?
S6	42805	(IDENTIFICAT? OR IDENTIFY? OR PASS) () (WORD? ? OR NUMBER? ? OR VALUE? ? OR CODE? ?)
S7	3709143	PUBLICKEY? OR KEY? ? OR CIPHER? ? OR CYPER? ? OR KEYPAIR? OR SUBKEY? ? OR TOKEN? ? OR PRIVATEKEY? OR PUBLICKEY?
S8	10093026	SECRET OR ENCIPHER? OR ENCYIPHER? OR ENCOD??? ? OR ENCRYPT? OR SECURE? ? OR SECURING OR SECURITY OR PRIVATE OR CYBERSECUR?
S9	6183592	SAFEGUARD? OR PROTECT? OR SAFETY OR SAFE
S10	886694	SERVER? ? OR HOSTSERVER? OR MAINFRAME? OR MAIN()FRAME? OR - RAS OR PRINTSERVER? OR MULTISERVER?
S11	19187	S8(1W)(CODE OR CODED OR CODES OR CODING? ? OR VALUE OR VAL- UES OR SEQUENCE? ? OR INTEGER? ? OR SUBSEQUENC? OR STRING? ? - OR SUBSTRING?)
S12	3618	S3:S4(5N)S1
S13	113	S12(S)S10
S14	18	S13(S)(S5:S7 OR SECRETKEY? OR S11)
S15	9	S14/2000:2004
S16	9	S14 NOT S15
S17	9	RD (unique items)
	?	

File 9:Business & Industry(R) Jul/1994-2004/Nov 16  
(c) 2004 The Gale Group  
File 16:Gale Group PROMT(R) 1990-2004/Nov 17  
(c) 2004 The Gale Group  
File 47:Gale Group Magazine DB(TM) 1959-2004/Nov 17  
(c) 2004 The Gale group  
File 148:Gale Group Trade & Industry DB 1976-2004/Nov 17  
(c) 2004 The Gale Group  
File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group  
File 275:Gale Group Computer DB(TM) 1983-2004/Nov 17  
(c) 2004 The Gale Group  
File 570:Gale Group MARS(R) 1984-2004/Nov 17  
(c) 2004 The Gale Group  
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Nov 17  
(c) 2004 The Gale Group  
File 636:Gale Group Newsletter DB(TM) 1987-2004/Nov 17  
(c) 2004 The Gale Group  
File 649:Gale Group Newswire ASAP(TM) 2004/Nov 10  
(c) 2004 The Gale Group

Set	Items	Description
S1	1007422	PRINTER? ? OR PRINTING
S2	3036333	REGIST? OR REGISTRY? OR ENROLL?
S3	1644774	AUTHENTICAT? OR VALIDAT? OR CERTIFY? OR CERTIFIE?? ? OR CE- RTIFICATION? OR VERIFY? OR VERIFIIE?? ? OR VERIFICATION?
S4	3476132	SUBSTANTIAT? OR AUTHORIS? OR AUTHORIZ? OR APPROV??? ?
S5	609298	ID OR IDS OR IDENTIFIER? OR SERIAL(1W)NUMBER? ? OR PASSWOR- D? OR PASSCODE? OR CODEWORD?
S6	69265	(IDENTIFICAT? OR IDENTIFY? OR PASS) () (WORD? ? OR NUMBER? ? OR VALUE? ? OR CODE? ?)
S7	4038283	PUBLICKEY? OR KEY? ? OR CIPHER? ? OR CYpher? ? OR KEypair? OR SUBKEY? ? OR TOKEN? ? OR PRIVATEKEY? OR PUBLICKEY?
S8	6742003	SECRET OR ENCIPHER? OR ENCYIPHER? OR ENCOD??? ? OR ENCRYPT? OR SECURE? ? OR SECURING OR SECURITY OR PRIVATE OR CYBERSECUR?
S9	5008230	SAFEGUARD? OR PROTECT? OR SAFETY OR SAFE
S10	1906531	SERVER? ? OR HOSTSERVER? OR MAINFRAME? OR MAIN()FRAME? OR - RAS OR PRINTSERVER? OR MULTISERVER?
S11	24186	S8(1W)(CODE OR CODED OR CODES OR CODING? ? OR VALUE OR VAL- UES OR SEQUENCE? ? OR INTEGER? ? OR SUBSEQUENC? OR STRING? ? - OR SUBSTRING?)
S12	11328	S2:S4(5N)S1
S13	438	S12(S)S10
S14	42	S13(S)(S5:S7 OR SECRETKEY? OR S11)
S15	9	S14/2000:2004
S16	33	S14 NOT S15
S17	25	RD (unique items)

17/3,K/17 (Item 6 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

02028306 SUPPLIER NUMBER: 19031217 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
PCNFS on Windows 95. (Net Worth) (Technology Information)  
Baker, Steven  
UNIX Review, v15, n2, p13(5)  
Feb, 1997  
ISSN: 0742-3136 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 2123 LINE COUNT: 00179

... products I tested used the PCNFS Daemon (PCNFSD) protocol for authentication and printing. A PCNFSD **server** running on a UNIX machine authenticates a PC user against the UNIX system's username and **password** entries. For PCNFSD to work effectively with multiple NFS **servers**, it is important to keep PC usernames, **passwords**, and UNIX user and group IDs in sync on the UNIX systems. SunSoft's PC-NFSPro and Esker's Tun Plus...

17/3,K/18 (Item 7 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02009137 SUPPLIER NUMBER: 18856898 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Comparing desktop NFS clients. (Software Review) (Evaluation)**  
Baker, Steven  
UNIX Review, v14, n13, p17(5)  
Dec, 1996  
DOCUMENT TYPE: Evaluation ISSN: 0742-3136 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 2212 LINE COUNT: 00176

... on an NFS server.

All these products can use the PCNFS daemon (PCNFSD) protocol for authentication and printing. PCNFSD authentication is based on running a PCNFSD **server** on a UNIX machine that authenticates against the UNIX system's username and **password** entries. SunSoft's PC-NFSPro includes PCNFSD binaries for Solaris 2 and SunOS along with...

17/3,K/19 (Item 8 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01992091 SUPPLIER NUMBER: 18691253 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**NFS on the desktop. (Sun Microsystems' Network File System) (Product Information)**  
Baker, Steven  
UNIX Review, v14, n11, p25(5)  
Oct, 1996  
ISSN: 0742-3136 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 2607 LINE COUNT: 00320

... running NetWare.

A PCNFS adjunct protocol also was developed in the late 1980s to facilitate authentication and printing from PC clients using NFS. For authentication on UNIX systems, most NFS implementations base security on the user ID (uid) and group ID (gid) of the user and the IP address of the client's machine. Although the...

...UNIX vendors aside from Sun. The PCNFS protocol authenticates a user's UNIX username and **password** and returns the appropriate uid and gid for file access. One or more PCNFS daemon (PCNFSD) **servers** could be run on a local subnet providing authentication for any PCNFS clients. As part...  
...3 filename limits and file attributes imposed by MS-DOS. Sun made freely available PCNFSD **server** source code that could be compiled on most UNIX systems. As a result, most major...

17/3,K/20 (Item 9 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)

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01977802      SUPPLIER NUMBER: 18631494      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**New NFS standards. (Network File System) (Net Worth) (Product Information)**  
Baker, Steven  
UNIX Review, v14, n10, p15(5)  
Sep, 1996  
ISSN: 0742-3136      LANGUAGE: English      RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 2695      LINE COUNT: 00210

... responding to RPC authentication requirements.

The PC-NFS daemon (PCNFSD) protocol was developed to handle **authentication** and **printing** for PC-NFS clients. PCNFSD takes a **username** and **password** (mildly encrypted when sent over the network) and returns the user **ID** and group **ID** the client should use for UNIX authentication of RPC packets. PCNFSD also adds a simple scheme for printing--transmitting a PC printer job to a print file on the NFS **server**. PC-NFS clients must map UNIX filenames to the 8.3 filename limits of MS...  
? t17/3,k/22

17/3,K/22      (Item 11 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

01671097      SUPPLIER NUMBER: 15066361      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Remote server offers multiprotocol support. (Cayman Systems' GatorAccess MP) (Brief Article) (Product Announcement)**  
LAN Magazine, v9, n4, p176(2)  
April, 1994  
DOCUMENT TYPE: Product Announcement      ISSN: 0898-0012      LANGUAGE:  
ENGLISH      RECORD TYPE: FULLTEXT  
WORD COUNT: 195      LINE COUNT: 00017

... in speed. Administrators can use the Simple Network Management Protocol (SNMP).

Security features include multilevel **password** protection, automatic dial back, inbound and outbound packet filtering, and authentication via the Challenge Handshake **Authentication** Protocol and **Printer** Access Protocol. For additional security, users can purchase Cayman's Radius Authentication **Server** software, which provides a single database for **passwords** and security access for multiple GatorAccess or can serve as a gateway to other security...  
?

File 6:NTIS 1964-2004/Nov W1  
     (c) 2004 NTIS, Intl Cpyrgh All Rights Res  
 File 2:INSPEC 1969-2004/Nov W1  
     (c) 2004 Institution of Electrical Engineers  
 File 8:Ei Compendex(R) 1970-2004/Nov W1  
     (c) 2004 Elsevier Eng. Info. Inc.  
 File 256:TecInfoSource 82-2004/Nov  
     (c) 2004 Info.Sources Inc  
 File 34:SciSearch(R) Cited Ref Sci 1990-2004/Nov W2  
     (c) 2004 Inst for Sci Info  
 File 35:Dissertation Abs Online 1861-2004/Oct  
     (c) 2004 ProQuest Info&Learning  
 File 65:Inside Conferences 1993-2004/Nov W2  
     (c) 2004 BLDSC all rts. reserv.  
 File 94:JICST-EPlus 1985-2004/Oct W3  
     (c) 2004 Japan Science and Tech Corp(JST)  
 File 95:TEME-Technology & Management 1989-2004/Jun W1  
     (c) 2004 FIZ TECHNIK  
 File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Sep  
     (c) 2004 The HW Wilson Co.  
 File 111:TGG Natl.Newspaper Index(SM) 1979-2004/Nov 15  
     (c) 2004 The Gale Group  
 File 144:Pascal 1973-2004/Nov W1  
     (c) 2004 INIST/CNRS  
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     (c) 2004 EBSCO Publishing  
 File 233:Internet & Personal Comp. Abs. 1981-2003/Sep  
     (c) 2003 EBSCO Pub.  
 File 266:FEDRIP 2004/Aug  
     Comp & dist by NTIS, Intl Copyright All Rights Res  
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
     (c) 1998 Inst for Sci Info  
 File 483:Newspaper Abs Daily 1986-2004/Nov 16  
     (c) 2004 ProQuest Info&Learning  
 File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
     (c) 2002 The Gale Group  
 File 603:Newspaper Abstracts 1984-1988  
     (c) 2001 ProQuest Info&Learning  
 File 248:PIRA 1975-2004/Nov W1  
     (c) 2004 Pira International

Set Items Description  
 S1 353879 PRINTER? ? OR PRINTING  
 S2 523936 REGIST? OR REGISTRY? OR ENROLL?  
 S3 1239575 AUTHENTICAT? OR VALIDAT? OR CERTIFY? OR CERTIFIE?? ? OR CE-  
     RTIFICATION? OR VERIFY? OR VERIFIIE?? ? OR VERIFICATION?  
 S4 522833 SUBSTANTIAT? OR AUTHORIS? OR AUTHORIZ? OR APPROV??? ?  
 S5 110285 ID OR IDS OR IDENTIFIER? OR SERIAL(1W)NUMBER? ? OR PASSWOR-  
     D? OR PASSCODE? OR CODEWORD?  
 S6 6050 (IDENTIFICAT? OR IDENTIFY? OR PASS) () (WORD? ? OR NUMBER? ?  
     OR VALUE? ? OR CODE? ?)  
 S7 951772 PUBLICKEY? OR KEY? ? OR CIPHER? ? OR CYPER? ? OR KEYPAIR?  
     OR SUBKEY? ? OR TOKEN? ? OR PRIVATEKEY? OR PUBLICKEY?  
 S8 1605615 SECRET OR ENCIPHER? OR ENCYIPHER? OR ENCOD??? ? OR ENCRYPT?  
     OR SECURE? ? OR SECURING OR SECURITY OR PRIVATE OR CYBERSECUR?  
 S9 2812717 SAFEGUARD? OR PROTECT? OR SAFETY OR SAFE  
 S10 339263 SERVER? ? OR HOSTSERVER? OR MAINFRAME? OR MAIN()FRAME? OR -  
     RAS OR PRINTSERVER? OR MULTISERVER?  
 S11 7871 S8(1W)(CODE OR CODED OR CODES OR CODING? ? OR VALUE OR VAL-  
     UES OR SEQUENCE? ? OR INTEGER? ? OR SUBSEQUENC? OR STRING? ? -

OR SUBSTRING?)  
S12 1867 S2:S4(5N)S1  
S13 41 S12 AND S10  
S14 2 S13 AND (S5:S7 OR SECRETKEY? OR S11)

File 347:JAPIO Nov 1976-2004/Jul(Updated 041102)  
 (c) 2004 JPO & JAPIO  
 File 350:Derwent WPIX 1963-2004/UD,UM &UP=200473  
 (c) 2004 Thomson Derwent  
 File 348:EUROPEAN PATENTS 1978-2004/Nov W01  
 (c) 2004 European Patent Office  
 File 349:PCT FULLTEXT 1979-2002/UB=20041111,UT=20041104  
 (c) 2004 WIPO/Univentio

Set	Items	Description
S1	537	AU=LAPSTUN P?
S2	1431	AU=SILVERBROOK K?
S3	765830	PRINTER? ? OR PRINTING
S4	10404	S3(10N) (SECRET? OR SECURE? OR SECURING OR SECURITY OR ENCR-YPT? OR CYBERSECUR? OR SAFEGUARD? OR SAFE OR SAFETY OR PASSWORD?)
S5	15640	S3(10N) (PASS()WORD? ? OR PROTECT? OR KEY? ? OR CIPHER? OR -CYPHER? OR CODEWORD? OR ENCIPHER? OR ENCRYPT? OR ENCYPTION?)
S6	215696	SERVER?
S7	51630	HOSTSERVER? OR MAINFRAME? OR MAIN()FRAME? OR RAS OR PRINTSERVER? OR MULTISERVER?
S8	8468	S3(5N)REGIST?
S9	268	S8(10N)S6:S7
S10	91	S9(20N)S4:S5
S11	82	S10 AND S1:S2
S12	5566	S8/TI,AB
S13	2	S11 AND S12

? t13/9/1

**13/9/1 (Item 1 from file: 350)**  
 DIALOG(R)File 350:Derwent WPIX  
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013596184 \*\*Image available\*\*  
 WPI Acc No: 2001-080391/200109  
 Related WPI Acc No: 2001-032072; 2001-032073; 2001-041078; 2001-049870;  
 2001-049889; 2001-061375; 2001-061376; 2001-061377; 2001-061378;  
 2001-061379; 2001-061380; 2001-061383; 2001-061384; 2001-061385;  
 2001-061386; 2001-070855; 2001-070886; 2001-070887; 2001-070889;  
 2001-080332; 2001-080380; 2001-091017; 2001-091018; 2001-091019;  
 2001-091020; 2001-102299; 2001-102300; 2001-102301; 2001-102302;  
 2001-146741; 2001-146742; 2001-146761; 2001-202518; 2001-244051;  
 2001-244052; 2001-244069; 2001-244070; 2001-257289; 2001-257290;  
 2001-257291; 2001-257292; 2001-257293; 2001-257336; 2001-257337;  
 2001-257338; 2001-257339; 2001-257341; 2001-257342; 2001-257343;  
 2001-257344; 2001-257345; 2001-265579; 2001-290116; 2001-328123;  
 2001-328124; 2001-335483; 2001-335752; 2001-354478; 2001-354825;  
 2001-355202; 2001-367045; 2001-374344; 2001-380760; 2001-381052;  
 2001-389385; 2001-389410; 2001-389418; 2001-397607; 2001-417832;  
 2001-425321; 2001-425322; 2001-425329; 2001-425338; 2001-425352;  
 2001-432690; 2001-464464; 2001-464465; 2001-464466; 2001-464473;  
 2001-464474; 2001-521241; 2001-521256; 2001-522897; 2001-541233;  
 2001-564790; 2001-564791; 2001-564792; 2001-564793; 2001-580761;  
 2001-580897; 2001-616166; 2001-625734; 2001-625756; 2002-074883;  
 2002-074884; 2002-074885; 2002-074886; 2002-074887; 2002-074888;  
 2002-147314; 2002-147316; 2002-226131; 2002-315396; 2002-351585;  
 2002-382643; 2002-382644; 2002-425623; 2002-636105; 2002-665882;  
 2003-531707; 2003-597030; 2003-844503; 2004-096199; 2004-096457;  
 2004-338582; 2004-338583; 2004-340152; 2004-373010; 2004-374395;  
 2004-376466; 2004-386954; 2004-390759; 2004-623797; 2004-624309;

2004-649306; 2004-652722; 2004-674978; 2004-697395; 2004-698508;  
2004-698512; 2004-707312; 2004-727587; 2004-727588; 2004-727593;  
2004-727594; 2004-727595; 2004-727597; 2004-727598; 2004-727600;  
2004-736133; 2004-736179; 2004-736191; 2004-736196; 2004-736197;  
2004-745997; 2004-745999; 2004-746000; 2004-746374; 2004-746424;  
2004-746433; 2004-746436

XRPX Acc No: N01-061265

Network printer registration protocol authenticates printer by comparing secret identifiers of printer and server, which are transmitted between printer and server over network

Patent Assignee: SILVERBROOK K (SILV-I); SILVERBROOK RES PTY LTD (SILV-N)

Inventor: LAPSTUN P ; SILVERBROOK K

Number of Countries: 094 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200072499	A1	20001130	WO 2000AU540	A	20000524	200109	B
AU 200047279	A	20001212	AU 200047279	A	20000524	200115	
BR 200010860	A	20020702	BR 200010860	A	20000524	200252	
			WO 2000AU540	A	20000524		
EP 1222768	A1	20020717	EP 2000929056	A	20000524	200254	
			WO 2000AU540	A	20000524		
CN 1359573	A	20020717	CN 2000809804	A	20000524	200268	
JP 2003500713	W	20030107	JP 2000619850	A	20000524	200314	
			WO 2000AU540	A	20000524		
AU 761466	B	20030605	AU 200047279	A	20000524	200341	
MX 2001012133	A1	20030701	WO 2000AU540	A	20000524	200420	
			MX 200112133	A	20011126		

Priority Applications (No Type Date): AU 991313 A 19990630; AU 99559 A 19990525

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200072499	A1	E	92 H04L-009/00	
			Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW	
			Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW	
AU 200047279	A			Based on patent WO 200072499
BR 200010860	A		H04L-009/00	Based on patent WO 200072499
EP 1222768	A1	E	H04L-009/00	Based on patent WO 200072499
			Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI	
CN 1359573	A		H04L-009/00	
JP 2003500713	W	150	G06F-003/12	Based on patent WO 200072499
AU 761466	B		H04L-009/00	Previous Publ. patent AU 200047279
				Based on patent WO 200072499
MX 2001012133	A1		H04L-012/24	Based on patent WO 200072499

Abstract (Basic): WO 200072499 A1

NOVELTY - A secret unique identifier is stored in the printer and in database of registration server before the printer is connected to the network. When printer is connected to the network, the printer is authenticated by comparing the secret unique identifiers of printer and server, which are transmitted between printer and server over the network.

DETAILED DESCRIPTION - The secret unique identifier is stored in printer and server with public unique identifier. The secret unique identifier along with public unique identifier and public key of

**printer** are transmitted to the **registration server** to authenticate **printer** connected to the network. An INDEPENDENT CLAIM is also included for network registration signal.

USE - For **registering** a **printer** such as high speed color printer on network.

ADVANTAGE - Periodicals from subscriber or authorized sources is only delivered unlike the fax or e-mail circuit. As signature recorded on netpage are automatically verified, e-commerce transactions are authorized reliably.

DESCRIPTION OF DRAWING(S) - The figure shows the schematic view of **printer registration** protocol.

pp; 92 DwgNo 50/55

Title Terms: NETWORK; PRINT; REGISTER; PROTOCOL; PRINT; COMPARE; SECRET; IDENTIFY; PRINT; SERVE; TRANSMIT; PRINT; SERVE; NETWORK

Derwent Class: P75; T01; T04; W01

International Patent Class (Main): G06F-003/12; H04L-009/00; H04L-012/24

International Patent Class (Additional): B41J-029/38; H04L-009/32

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NETWORK PRINTER REGISTRATION PROTOCOL

PROTOCOLE D'ENREGISTREMENT D'UNE IMPRIMANTE DANS UN RESEAU

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English Abstract

In a network connected to a **printer** and a registration server, a network registration protocol for registering the **printer** on the network includes the steps of installing a **secret** unique identifier and public unique identifier in non-volatile memory in the printer and in a database of the **registration server**, before the **printer** is connected to the network; then, when the printer is connected to the network, authenticating the **printer** to the server by comparison of the **secret** unique identifiers installed in **printer** and server, using a **secure** transmission between the two over the network. Also a network registration signal for transmission over a network from a **printer** to a **registration server** to register the **printer** with the **server**, where the signal is transmitted at the first occasion the printer is connected to the network.

French Abstract

Dans un reseau relie a une imprimante et a un serveur d'enregistrement, on utilise pour enregistrer l'imprimante dans le reseau un protocole d'enregistrement comportant les phases suivantes: installation d'un identificateur secret unique et d'un identificateur publique unique dans une memoire non volatile de l'imprimante et dans la base d'enregistrement du serveur avant de raccorder l'imprimante au reseau; apres raccordement de l'imprimante, authentification imprimante/serveur par comparaison entre les identificateurs secrets uniques de l'imprimante et du serveur; et utilisation d'une transmission sure transitant par le reseau entre l'imprimante et le serveur. L'invention porte egalement sur le signal d'enregistrement de l'imprimante dans le serveur d'enregistrement, transitant par le reseau et allant de l'imprimante au serveur, et transmis lorsque l'imprimante est reliee pour la premiere fois au reseau.

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